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## SPECIFIC LEPROUS REACTIONS AND ABNORMAL VACCINIA INDUCED IN LEPERS BY SMALLPOX VACCINATION. 1

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As a prophylactic measure against smallpox, 118 lepers and 105 non-leprous attendants were recently vaccinated in the U. S. Marine Hospital No. 66 (National Leprosarium, Carville, La.). The virus used to vaccinate the lepers and the attendant personnel of the hospital was obtained at the same time from the same commercial laboratory, and the same technique was employed in all instances. The number of cases observed under the same conditions warrants, in the opinion of the writers, the drawing of some conclusions.

Though it may be difficult to state what amount of reaction should accompany a normal, successful vaccination, yet the number of cases observed and the marked departure from the control established by vaccination of the hospital personnel demonstrated quite clearly, it is believed, that vaccinia in the lepers ran an abnormally violent course, evidenced in a majority of cases by excessive local inflammation, necrosis, and ulceration, and accompanied by unusually high fever and even severe prostration.

Appearing coincidently with the symptoms of severe vaccinia, and even in some cases of unsuccessful vaccination, were other manifestations specifically leprous in character. Previous and subsequent daily observation of each individual case has shown that these leprous reactions were unusual departures from the course of leprosy and must be attributed to the effect of the vaccine.

#### CONTROL VACCINATIONS.

Of the 105 nonleprous employees, 74, or 70.5 per cent, were successfully vaccinated as follows:

- 52 were successfully vaccinated by the first administration:
- 6 were successfully vaccinated by the second administration;
- 13 were successfully vaccinated by the third administration;
- 3 were successfully vaccinated by the fourth administration;
- 0 were successfully vaccinated by the fifth administration.

<sup>&</sup>lt;sup>1</sup>Received for publication May 31, 1922.

Vaccinations among the nonleprous attendant personnel ran normal courses without exception, the various stages appearing in proper sequence and at proper intervals; secondary reactions, such as local pain and tenderness, axillary adenitis, malaise, and hyperpyrexia, were not more marked than might be expected in average normal individuals. No case was confined to bed or even seriously incapacitated.

#### LOCAL VACCINIAL REACTIONS IN LEPERS.

Of the 118 lepers, 79, or 67 per cent, were successfully vaccinated as follows:

- 36 were successfully vaccinated by the first administration;
- 24 were successfully vaccinated by the second administration;
- 15 were successfully vaccinated by the third administration;
- 1 was successfully vaccinated by the fourth administration;
- 3 were successfully vaccinated by the fifth administration;
- 0 were successfully vaccinated by the sixth administration.

The local reaction to vaccination in the lepers pursued an atypical course, variable in intensity, but abnormally severe in most cases, and in 11 instances resulted in alarming symptoms. In the more severe cases during the stage of pustulation the areola surrounding the site of inoculation became markedly intensified and grew rapidly in extent. In the course of a few days the inflammation spread over the entire arm. The resulting pain and enormous swelling demanded absolute rest in bed with immobilization of the vaccinated arm for more than one week. The involved areas could not be differentiated clinically from leprous macules undergoing inflammatory changes, such as occur periodically in some cases of maculo-tubercular leprosv. and the "Hansen bacillus" was readily demonstrated in scrapings from the inflamed tissues. The inflammatory crisis was reached in two or three weeks, when gradual return to normal took place. Temperatures ran from 39° C. to 40.4° C., and continued for from one to three weeks.

The vaccination proper progressed from the papular, through the vesicular, to the pustular stage in an apparently normal manner; but frequently the process failed to proceed to normal desiccation and continued as one of necrosis, spreading in a serpentine manner, eventually covering areas from 5 to 15 centimeters in diameter. In from one to two months the resulting ulcers healed by granulation and cicatrization.

Illustrative case.—E. M., No. 53, white male, 59 years of age, mixed type with skin lesions predominating, presenting typical macules generally distributed over trunk and limbs, distinct nodules and deeply infiltrated patches on face, but no gross disfigurement. Some anesthesia but no muscular atrophy or contractures of flexor tendons.

General condition excellent, permitting daily performance of routine duties as a hospital orderly. Since admission to the hospital, about two years previously, he has shown marked improvement with no tendency to attacks of leprous fever or other symptoms of unfavora-

ble progress.

Successfully vaccinated May 15, 1921. After a period of indefinite malaise, there appeared on the twelfth day a violent reaction, accompanied by hyperpyrexia and an outcropping of tubercles around the site of vaccination. These tubercles became involved in the rapidly spreading vaccination areola; similar lesions appeared in light brown macules, previously existing elsewhere on the same arm; coincidently there was an outcropping of tubercles and erythematous macules on the opposite arm in areas previously quiescent. On the thirteenth and fourteenth days numerous new macules tubercles appeared on the right wrist in areas previously unaffected by leprosy. The site of vaccination no longer resembled a normal vaccination and appeared as a slough 6 centimeters in diameter (fig. 1), evidently extending deeply into the subcutaneous tissues. There was no evidence of secondary infection, and the lesion was treated without antiseptics and protected from trauma with gauze rings. On the seventeenth day the process appeared to have reached its maximum severity, and desiccation of the lesion began; at the same time, the hyperpyrexia and malaise declined in severity until the twenty-fourth day, when the patient was without discomfort. The newly appeared tubercles and macules disappeared rapidly with coincident desquamation of epithelium (fig. 3). On the thirty-second day of vaccination, the patient had returned to his prevaccinated state (figs. 4 and 5), with a surprisingly small amount of scarring resulting from the extensive ulceration and necrosis.

#### SPECIFIC LEPROUS REACTIONS FOLLOWING SUCCESSFUL VACCINATION.

In some instances the reactions were simple recurrences of old symptoms; in others, the reactions were typically those of leprosy, but entirely new to the individual affected.

For convenience, the systemic reactions among those successfully vaccinated will be described as they appeared in the three main divisions of leprosy—namely, the nodular, the maculo-anesthetic, and the mixed types.

#### NODULAR TYPE.

Among the lepers of the uncomplicated nodular type there appeared, generally on the fourth day of successful vaccination, marked malaise and an increase in body temperature. On the fifth day the process apparently concentrated on the old leprous lesions, which clearly evidenced an inflammatory reaction, enlarging rapidly, and becoming hard and extremely tender. Subsequently, there occurred an outcropping of similar tubercles and infiltrated patches in areas previously unaffected, while the systemic symptoms attained a severity which was frequently sufficient to render the patient bedfast.

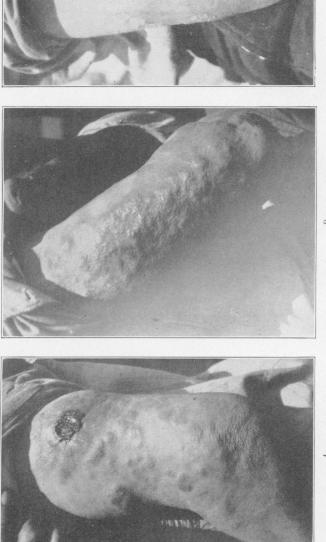
The crisis was usually reached about the twelfth day of successful vaccination, after which a decline of symptoms was noted and the individual rapidly returned to his prevaccinated state.

Illustrative case: C. Y., No. 96, white male, 51 years of age, nodular type. Unsuccessfully vaccinated May 15, 1921; revaccinated May 20. The second vaccination was definitely successful May 24. On the fifth, sixth, seventh, and eighth days, severe malaise and high temperature. On ninth day exhibited considerable inflammatory activity in old tubercles and new tubercles appeared on both arms in areas previously unaffected. On the tenth day the general condition improved, the malaise decreasing, but numerous new tubercles had appeared. On 'the twelfth day, numerous of the new and old tubercles on his arms underwent resolution and developed into small. cutaneous abscesses. On the thirteenth day about 50 of these abcesses, averaging in size one-half centimeter, were evacuated and swabbed with an antiseptic. The lesions rapidly healed and within two days the patient had returned to his preveccinated state. Bacterioscopic examination of the material from the evacuated pustules showed numerous leucocytes and myriads of acid-resisting organisms having the morphology of "Hansen bacilli".

#### MACULO-ANESTHETIC TYPE.

In the simple, uncomplicated maculo-anesthetic cases, a definite neuritis appeared, usually in the successfully vaccinated arm, frequently in both arms, and rarely in the unvaccinated arm alone. Coincident hyperpyrexia existed, so that the process apparently differed in no respect from the characteristic ulnar neuritis and so-called "leper fever". In three instances the neuritis appeared coincidently in the ulnar and sciatic nerves. In point of time the neuritis ran a much shorter course than that of the nodular types, rarely lasting longer than four days.

Illustrative case: S. H., No. 31, negro woman, 56 years of age, an apparently inactive though advanced anesthetic case, with typical "claw hand" and deformed feet. For a number of years there has been no apparent progression in the disease. Vaccinated May 15, 1921. On the fifth day the vaccination gave promise of success in the papular stage. On the sixth day she complained of violent pain along the course of both ulnar nerves, somewhat more intense in the unvaccinated arm. On the eighth and ninth days the patient still complained of severe pain; the vaccination, however, desiccated rapidly and appeared to have failed of success. May 29, the vaccination having definitely failed, she was revaccinated; the neuritis on this date had practically disappeared. On the sixth day, the vaccination was again apparently successful in the papulo-vesicular stage and the patient again complained of pain, not only along the course of the ulnar but also of the sciatic nerves; the severity of the neuritis was such that morphine was administered to alleviate the suffering. The vaccination again ran an abortive course, the vesicle being completely desiccated by the tenth day, at which time the neuritis had disappeared and the patient had returned to her prevaccinated state.





A. Left arm, 12th day after vaccination. Necrotic mass at site of vaccination; numerous new nodules distributed over entire arm. B. Right arm, 12th day after vaccination. New nodules so numerous that they are confluent. C. Right arm, 23d day after vaccination. Almost complete disappearance of nodules and coincident desquamation. (All of Case 53.)





4. Left arm, six months after vaccination. Complete disappearance of nodules, leaving slightly pigmented areas. Note small locatrix following vaccinia. B. Right arm, six months after vaccination. Small, slightly pigmented macules at sites of former nodules. (Both of Case 53.)

#### MIXED TYPE.

The mixed cases showed a combination of the reactions described as occurring in the nodular and the maculo-anesthetic types.

Illustrative case: M. S., No. 75, white female, 35 years of age, advanced stage, mixed type of leprosy, with gross disfigurement resulting from both skin and nerve lesions. Vaccinated unsuccessfully May 15, 1921; revaccinated May 20, the papule appeared on the fourth day and proceeded in a normal manner. On the ninth day she began having slight fever, malaise, and arthralgia, which continued with increasing severity, while a painful neuritis developed in the vaccinated arm; coincidently, an inflammatory reaction appeared, involving the same arm from the shoulder to the finger tips. The prostration was so intense that the patient was bedfast for three weeks. The vaccination lesion proper failed to subside on the twelfth day and resulted in a necrotic area which attained in three weeks a diameter of seven centimeters. All the leprous spots over the entire body showed signs of intense inflammation. Numerous new tubercles appeared during the period of prostration. In three weeks the crisis was reached and convalescence began. Some of the newly formed nodules developed into abscesses which, when evacuated, yielded readily to antiseptic dressings and proceeded to complete repair. The necrotic mass at the site of vaccination eventually sloughed, and the lesion healed by granulation and cicatrization at the end of two months, when the patient had not only returned to her prevaccinated state but actually appeared to be in better physical condition than at the time of vaccination.

#### SPECIFIC LEPROUS REACTIONS FOLLOWING UNSUCCESSFUL VACCINATION.

Thirteen of the lepers who were unsuccessfully vaccinated exhibited reactions similar to, but less intense than, those among the successfully vaccinated, the reaction taking place in response to each administration of the virus.

Illustrative case: D. E., No. 102., white male, 25 years of age, mixed type. Prior to vaccination, the patient was in excellent health, having shown progressive improvement since admission to the hospital. Although formerly subject to ulnar neuritis of the left arm, had been free from attacks for nearly a year. About 10 hours after vaccination of the left arm, on May 15, 1921, he began having ulnar neuritis in that arm. The symptoms rapidly became exaggerated, reaching a crisis in 48 hours. The patient evidently suffered excruciating pain, which changed his habitually cheerful disposition to an irritable, cringing one. He complained of pain which morphine alone appeared to relieve; during the following two days the pain decreased in severity and disappeared. Revaccinations of the left arm on May 20, 24, and 29 caused a recurrence of the same cycle of symptoms, always in the vaccinated arms, so that he had barely recovered from the effects of one vaccination when the next was administered. He evaded the fifth round of vaccinations given to other patients on June 4 and was not revaccinated until June 12, during which interval he completely regained his normal

composure and voluntarily reported for duty as an emergency hospital orderly. His fifth vaccination (June 12) was on his right arm and six hours later he began having ulner neuritis in this arm, which had never previously been affected. The administration of chloral was sufficient to furnish relief during the first 24 hours; as the pain increased during the seven succeeding days it was necessary to give morphine hypodermically to furnish relief. The maximum pain was experienced on the eighth day, after which it declined and disappeared in four days.

#### SUMMARY.

One hundred and five nonlepers were vaccinated with 74 successful results and with no untoward symptoms.

One hundred and eighteen lepers were vaccinated with 77 successful results. Of the 77 successful vaccinations—

49 had leprous reactions;

2 had leprous reactions and varioloid;

3 had variola; 1

1 had varioloid; 1

1 absconded;

4 are cases of presumably arrested leprosy;

17 had no reactions.

Thirty-nine lepers were unsuccessfully vaccinated, and of this number—

13 had leprous reactions in response to each vaccination;

3 had variola; 1

3 had varioloid; 1

1 absconded;

5 are cases of presumably arrested leprosy;

14 had no reactions.

#### COMMENT.

While the exact significance of the phenomena attending vaccinations of lepers is not apparent, the writers feel justified in stating: (A) That the majority of successful vaccinations were abnormally severe in respect to results immediately attributable to vaccine virus; (B) that the normal course of leprosy was profoundly affected by the appearance of definite leprous lesions; and (C) that these lesions were provoked by vaccination and were not merely intercurrent attacks of leprous fever with its usual skin changes.

(A) That the destruction of tissue at the site of vaccination was far in excess of what might be expected in normal individuals under the same conditions was amply evidenced by comparison with the control cases. It is believed that this necrosis was directly due to

<sup>&</sup>lt;sup>1</sup> The phenomena observed in cases of leprosy affected with smallpox and varioloid will be discussed in a subsequent paper.

vaccine virus and not to secondary infection or to leprous reactions. Secondary infection was eliminated as the causative factor, because no cases of secondary infection with extensive necrosis occurred in the control cases; the leper is well known to be unusually resistant to ordinary staphylococcic and streptococcic infections, even trophic gangrene being less alarming in the leper than in nonleprous individuals; the necrotic areas were dry and the vesicles and pustules hefore desiccation, though larger than usual, were typically vaccinial: those unsuccessfully vaccinated frequently exhibited considerable local inflammation on the fourth day which seemed to indicate, even in these cases, a susceptibility to some irritant substance in the vaccine. That the necrosis was a leprous manifestation was regarded as improbable for the following reasons: In vaccinating. care was taken to avoid leprous lesions; necrosis and ulceration on the arms are extremely rare in uncomplicated leprosy and occur in terminal cases only; the necrotic areas developed at the site of vaccination only, spread by peripheral extension from the point of inoculation, and, though larger than in normal individuals, in other respects were identical with the more limited necrosis that usually follows vaccination.

- (B) It was evident that following vaccination there was a profound systemic disturbance accompanied by unusual skin and nerve lesions identical with the symptoms of leprous fever. That these multiple and generally distributed skin lesions were specifically leprous was shown not only by the clinical characteristics of the lesions but also by repeated bacterioscopic examinations which invariably disclosed great numbers of acid-fast organisms conforming morphologically with the "Hansen bacillus." It is of interest as an indication of symbiosis that in the extensive areola surrounding the site of vaccination there were often found numerous tubercles clinically and bacterioscopically leprous. So intermixed, indeed, were the newly formed leprous lesions and the extensive vaccinial areola that it was often impossible to determine to what extent the resulting enormous swelling of the vaccinated arm was caused by leprosy and to what extent by vaccinia.
- (C) It has been noted in a preceding paragraph that the leprous reactions observed following vaccination were identical clinically and bacterioscopically with the spontaneous exacerbations that occur from time to time in uncomplicated leprosy. But the assumption that 51 out of 71 lepers should at a given time spontaneously develop fever and severe acute leprous symptoms is not warranted by the frequency with which these symptoms occur in the usual course of the disease. A proportion as great as five out of seven inmates at the same time suffering from this form of fever is unprecedented in the last 20 years' history of the hospital and can not be explained as

a mere coincidence. That the acute specific leprous lesions described did not occur spontaneously but were induced by vaccination is further evidenced by the uniform time of their appearance after vaccination, by their preponderance near the site of inoculation, and by their occurrence in cases which had not previously and have not subsequently suffered attacks of leprous fever.

In explanation of the phenomena observed, the most satisfactory hypothesis that occurs to the writers is that leprosy and vaccinia are so related that the symptoms of both diseases are exaggerated when lepers are vaccinated. In view of the enormous number of "Hansen bacilli" found, the generally distributed acute leprous lesions must be regarded as the result of unusually rapid proliferation of organisms and can not be explained as a simple foreign protein reaction or shock such as occurs in forms of toxic dermatitis. There seems to exist in chronic leprosy a well-balanced control by which the growth of bacilli is held in check for long periods of years. In spontaneous acute attacks of leprous fever this control seems to be lost, and the probability is that in a similar way vaccinia abolishes inhibiting influences on bacterial growth.

Certain reagents, notably the iodides, ethyl esters of chaulmoogra oil, and various vaccines, including erysipelas and anthrax, may provoke reactions in lepers; the end results of these reactions have been improvement in some lepers and retrogression in others. is not without interest that in no instance did a case present more pronounced symptoms of chronic leprosy at the subsidence of the acute symptoms provoked by smallpox vaccination, but, on the contrary, some showed actual improvement. It is not improbable that during the acute leprous exacerbation, long acquiescence of the host to bacterial invasion was disturbed, and immunizing substances were produced which were not elaborated during the quiescent periods. The production of such substances in the acute leprous lesions would readily explain the completeness with which such lesions disappeared and also such improvement as has been noted in chronic symptoms. It is with considerable interest, therefore, that observations, to be reported elsewhere, are being made on pattients who are now being revaccinated one year subsequent to the observations here recorded.

#### CONCLUSIONS.

(1) Vaccinia in lepers was accompanied by more severe local symptoms than in normal individuals. This abnormal susceptibility to vaccine virus occurred in all types and stages of leprosy.

(2) Following vaccination, acute specific leprous lesions occurred in a proportion of cases sufficiently large to establish a relationship of cause and effect. These acute leprous reactions developed not

only near the site of vaccination but were generally distributed over the entire body, manifesting themselves as nerve disturbances in the nerve type, as highly inflammatory macules and nodules in the skin type, and as nerve and skin lesions in the mixed type.

(3) The acute leprous reaction to vaccination was of short duration. No case was permanently aggravated, and some showed actual

amelioration.

(4) A symbiotic relation existing between vaccine virus and the bacillus of leprosy offers the best explanation of the phenomena observed.

### SMALLPOX AND VACCINATION IN DENVER, COLO.

The Department of Health and Charity of Denver, Colo., has issued a leaflet giving information regarding the outbreak of smallpox in that city.

During the 13-month period from November 1, 1921, to November 30, 1922, 854 cases of smallpox, with 263 deaths were recorded. The leaflet contains the names of all patients who died during the months of September, October, and November, 1922.

The accompanying tables have been compiled from the data given in the leaflet.

Table 1.—Vaccination status of smallpor patients, Denver, Colo., November, 1921, to November, 1922, inclusive.

		Cases.		:	Fatal cases.	1
Month.	Vacci- nated.	Not vac- cinated.	Total.	Vacci- nated.	Not vac- cinated.	Total.
1921.						
November	3	43	46	1	10	11
December	18	66	84	3	23	26
1922.		1				
January	10	62	72	0	24	24
February	9	38	47	5	l îi l	16
March	14	39	53	3	12	15
April	11	34	45	i	18	19
May	10	19	29	0	7	7
June	2	7	9	0	0	0
July	2	9	11	0	3	3
August	2	12	14	0	2	2
September	. 10	22	32	2	5	7
U(10be)	31	129	160	. 2	39	41
November	60	192	252	6	86	92
Total	182	672	£54	23	240	263

<sup>&</sup>lt;sup>1</sup> Include 1 in "Cases" columns.

Table 2.—Vaccination history of patients.

	Num	ber of pat	ients.		Numb	er of pat	ients.
	Recov- ered.	Died.	Total.		Recov- ered.	Died.	Total.
Years since vaccinated:				Years since vaccinated:		<u>-</u>	
5	1		1	42	2	1	
7	2	1	3	43	5		
8	1		. 1	44	3	1	
9	1		1	45	6		
11	1		1	46	2		
12	3		3	47	1		
13		1 1	1	48	2	1	1
14	. 1		ı	50	8	2	1
15	1	1	2	52	1		-
16	1		ı	54	1		ļ
17	2		2	55	1		
18	2		2	56	! 1	1	
19	1		1	57	1		
20	7	1	8	58	2	1	
22	$\frac{2}{3}$		2	59	1	1	
23			3	60	5	3	1
24	2		2	63	1	1	1
25	2		2	65	2	1	1
26	1		1	70	1		
27	1		1	71	1		1
29	3		3	72		1	1
30	8.	1	9	73	1		
31	1		1	81	1		
32	3		3	No authentic history Vaccinated after expo-	18		1
34	3		.3		l		i
35	9	1	10	sure	13	1	1
36	Ĭ	[	1	Vaccinated "when a		İ	
37	3		3	_child"	1		1
38	3		3	Previously had smallpox.	1		
40	5	2	7			·	
41	3		3	Total	159	23	11

An analysis of Table 2 shows that the vaccination histories of 148 patients who had been vaccinated before exposure were available. Of these 126 recovered and 22 died. The average time elapsed between vaccination and the contracting of the disease was 38 years. Over one-half were vaccinated more than 35 years before the disease was contracted; 75 per cent were vaccinated more than 25 years before; 90 per cent more than 15 years before. In three cases seven years had elapsed since vaccination, and one was vaccinated five years before the disease was contracted.

These data again emphasize the fact that vaccination and revaccination are the most effective means for the control of smallpox, but remind us that one vaccination does not protect the individual throughout his entire lifetime.

#### INFLUENZA IN THE UNITED STATES.

Dr. James A. Hayne, State health officer of South Carolina, reports that influenza is prevalent in a number of counties in South Carolina. Arrangements have been made by Doctor Hayne for securing telegraphic reports of cases of influenza and deaths from influenza and

from pneumonia (all forms) in the State. Summaries of these reports will be published in the Public Health Reports.

The following table shows the number of cases of influenza reported by State health officers weekly during the months of October, November, and December, 1922:

Cases of influenza reported by State health officers.

		C	ases of	influe	nza rej	orted (	during	week	ended-		
State.		Octol	ber—			Noven	ıber—		De	cembe	 r
	7	14	21	28	4	11	18	25	2	9	16
AlabamaArkansas(alifornia(colorado (except Denver)	126 8 27	4 17	22 12 16	12 10 13	69 2 28	15 12 1	25 19 19	143 12 18	. 70 28 15	141 35 29	125 10 13
Connecticut Delaware District of Columbia	6	3 i	(¹)	(¹) <sub>1</sub>	7	6	5 4	1 5 1	3 6 2	18 (1)	3 10 3 (1)
FloridaGeorgiaIllinois	7 19 12	13 22 8	2 20 9	3 16 15	13 47 22	8 48 17	28 72 22	6 72 20	48 246 14	28 409 35	49 894 37
Kansas Kentucky Louisiana	3 3 16	3 4 3 2	1 5 7 2	1 6 3	2 6 8	17	5 8 6	20 20	9 3	9 	(¹)
Maine Maryland Massachusetts Minnesola	11 3	14 2	16 3 2	6- 14 2	1 22 15 4	1 20 14	1 22 10	52 18	5 30 7 1	11 29 10	6: 20
Missouri Nebraska New Jersey	5	2 20	28 2 10	(¹) 1 17	(¹) 	15	6	2 1 26	8 3 11	3 31	2
New Mexico	5	9	17	10	1 12	7 16	16	9 14	2 12	26	17
New York City Oregon South Dakota	18	31 4	21	35 4	41	67	45 3	41 4	43 1	35	43
Texas	5 6	4	8	23	30 30	14 46 (1)	8 36 1	10 6	37	38	35

<sup>1</sup> No weekly report received.

#### REGULATIONS GOVERNING THE CARE OF LEPERS.

The regulations printed below were approved December 4, 1922, by the Secretary of the Treasury, and are published for the information of health officers and others concerned.

The following is the letter of transmittal:

TREASURY DEPARTMENT,
BUREAU OF THE PUBLIC HEALTH SERVICE,
November 27, 1922.

The SECRETARY OF THE TREASURY.

SIR: I have the honor to transmit herewith for your approval regulations for the government of leprosaria and for the apprehension, detention, treatment, and release of lepers, prepared by a board of officers in accordance with the provisions of Public Act No. 299, Sixty-fourth Congress.

Respectfully,

#### Regulations for the Apprehension, Detention, Treatment, and Release of Lepers.

In accordance with sections 2 and 3 of Public Act No. 299, Sixty-fourth Congress, approved February 3, 1917, the following rules and regulations are promulgated:

- (1) Transportation of persons afflicted with leprosy to the National Home for Lepers, officially known as United States Marine Hospital No. 66.—The Surgeon General of the Public Health Service is authorized upon request of the proper health authority of any State, Territory, or the District of Columbia, or upon notification, under the quarantine laws or regulations, to send for any person afflicted with leprosy, except an alien subject to deportation, and to convey said person to United States Marine Hospital No. 66, Carville, La., provided that said request is accompanied by satisfactory proof of diagnosis.
- (2) Admission to the Hospital.—There shall be received into said hospital, under these regulations, any person afflicted with leprosy, who presents himself or herself, for care, detention, and treatment, or who may be apprehended under authority of the United States quarantine acts, or any person afflicted with leprosy, duly consigned to said home by the proper health authorities of any State, Territory, or the District of Columbia.
- (3) Examination upon admission to the hospital.—At the earliest practicable date, after the arrival of a patient, the medical officer in charge of the hospital shall convene a board of not less than three officers of the Public Health Service, who shall confirm or disapprove the diagnosis of leprosy.
- (4) Release if not a leper.—Should the diagnosis of leprosy not be confirmed, the patient shall be placed in a building upon the reservation set aside for observation purposes. At the earliest practicable date thereafter the medical officer in charge shall convene a board of not less than three medical officers experienced in leprosy, who shall carefully consider the case and recommend the discharge of the patient upon their unanimous opinion that the patient is not a leper. Should the opinion of the board not be unanimous that the patient is not a leper he shall be held for such further period of observation as may be necessary to make a definite diagnosis.

If the diagnosis of leprosy is confirmed, the patient shall be detained in the hospital as provided in these regulations.

- (5) Treatment.—Patients are expected to submit to the usual routine clinical examinations which may be required for the diagnosis of primary or secondary conditions, and to such treatment as may be prescribed.
- (6) Detention and discipline of patients afflicted with leprosy.—(a) No patient shall, under any circumstances, proceed beyond the limits

of the reservation set aside for the detention of patients suffering from

leprosy.

- (b) Patients shall, on no account, visit the quarters allotted to, or hold communication with, patients of the opposite sex, unless authorized to do so by special permission of the medical officer in charge. Visiting between patients of the opposite sex shall be permitted in the appointed visiting place only and at such hours as may be set aside for that purpose.
- (c) No patient shall willfully destroy, damage, deface, or make away with any building, fixture, implement, article of equipment, clothing, or any other article, the property of the Government, and no patient who received at the public expense issues of clothing, equipment, or foodstuffs, for personal use shall willfully destroy, damage, deface, or make away with such articles by gift, sale, barter, or otherwise.
- (7) Provisions for the enforcement of discipline.—(a) There shall be provided the necessary accommodations within that part of the reservation set aside for persons afflicted with active leprosy, for isolation or restraint of patients when in the judgment of the medical officer in charge such action is necessary for the protection of themselves or others.
- (b) The medical officer in charge shall keep a separate register, recording cases that have been placed in isolation or restraint, in which shall be recorded all circumstances attendant upon such isolation or restraint.
- (8) Discharge of patients.—Each patient confined in the United States Marine Hospital No. 66 shall be examined bacterioscopically not less than once in 12 months. If at such examination the patient has not been found bacterioscopically a leper the medical officer in charge shall convene a board of three medical officers to make a thorough physical and bacterioscopic examination of the patient. If in the opinion of this board the said patient is considered to be a latent or arrested case he shall be kept under observation for six months, during which time bacterioscopic and physical examinations shall be made not less frequently than once each month. If during this six months' period the patient shows no signs of leprotic retrogression he shall be removed from that portion of the reservation used by patients with active leprosy and placed under observation in that portion of the reservation set aside for special observation purposes. Said patient so isolated shall be examined physically and bacterioscopically not less than once each month for a period of If during this one year of special observation and isolation the patient has not shown signs of leprotic retrogression the medical officer in charge shall convene a board of not less than three medical officers experienced in leprosy, who shall review the findings of the

case and in the absence of contra-indicating findings may recommend the discharge of the patient on probation as either "cured," "arrested," or "latent," and "no longer a menace to the public health."

If at any of the examinations above indicated the patient shows signs of leprotic retrogression he shall be considered as ineligible for consideration for discharge within one year from the date of such examination.

- (9) Examinations of patients probationally discharged.—After the discharge of a patient the medical officer in charge shall notify the proper health officer of the State in which the patient resides and request that he arrange to make a clinical and bacterioscopic examination of the patient at intervals of not less than once in six months for a period of three years and report the findings to the medical officer in charge.
- (10) Disposal of patients deceased.—Lepers dying at the hospital shall be buried at the expense of the Government in the station cemetery and the graves shall be marked by a proper headstone of standard design, upon which shall be inscribed the patient's name, date of birth, and date of death. Upon proper application by a member of the deceased's immediate family or an accredited representative the patient's body may be removed, in conformity with interstate quarantine regulations and State regulations governing the transportation of human bodies dead from contagious diseases. No expenses incident to the preparation or transportation shall be borne by the United States Public Health Service.
- (11) Visitors.—Visitors may be admitted under such restrictions as the medical officer in charge may prescribe.
- (12) General administration of hospital.—The hospital shall be administered, except as above provided, in accordance with the regulations governing the hospitals and relief stations of the United States Public Health Service and regulations for the government of the United States Public Health Service.

### DEATH RATES OF MOTHERS FROM CHILDBIRTH, 1921.

The Department of Commerce announces that the compilations made by the Bureau of the Census show lower death rates of mothers from childbirth or puerperal causes in 1921 than in any year since 1917.

For the nine States and the District of Columbia (constituting the "birth registration area" of 1915, exclusive of Rhode Island), the death rate from puerperal causes in 1921 was 6.5 per 1,000 live births as compared with 7.6 in 1920, 6.8 in 1919, 8.9 in 1918, 6.3 in 1917, 6.2

in 1916, and 6.1 in 1915. The relatively high rates for the years 1920, 1919, and 1918 were doubtless due, for the most part at least, to the epidemics of influenza which prevailed in those years and which took heavy toll of pregnant women. The ratio of deaths from childbirth to the number of women bearing children in the year 1921 was about 1 to 150.

Of the 27 States for which figures are available, South Carolina has the highest 1921 death rate from puerperal causes (9.8 per 1,000 live births) and Connecticut the lowest (5.3).

Rates for the white and colored are shown for only the six States of Kentucky, Maryland, Mississippi, North Carolina, South Carolina, and Virginia. For 1921 the highest rate for the white (7.8) appears for South Carolina and the lowest (5.7 each) for Kentucky and Virginia, while for the colored the highest rate (14.8) appears for Kentucky and the lowest (9.6) for Maryland.

Death rates from puerperal causes per 1,000 live births in the birth registration area and each registration State, 1915 to 1921.

									Death rate per 1,000 live births	rate po	r 1,00	) live	irths.									
Area		¥	ll puer	peral	All puerperal causes.					Puc	Pucrperal septicemia	septic	emia.	!		O	Other puerperal causes	rpora	cause	, ,		
	1921	1920	1919	1918	1917	1916	1915	1561	1920	1919	8161	1917	1916	1915	1921	1920	1919	1918	1917	1916	1915	
SUMMER.  The birth registration area so of 1915 1 (exclusive of Rhode Island).	6, 5 8, 5	& 1; 9	7. 4 6. 8	9. 3. 9. 3.	6.6	6.2	6.1	1- 9 ci ci	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6j 6j 15 85	ાં છે. જો લો	ej. ej 1- 8	ei ei	→ → ci ci	4.1	5.3 5.1	5. 1€ ਜੋ ਜੋ	6. 6 6. 6	6 L-	1- 1- ei ei	1- 1- n n	
REGISTRATION STATES. California Connecticut Delaware Delaware Indiana Namas Kentucky (total) White Colored Massachusetts Michigan	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\mathbb{S}_{\frac{1}{2}} \mathbb{S}_{\frac{1}{2}} \mathbb{S}$	64600000000000000000000000000000000000	ಜಿಲ್ಲೆ ಜಿಲ್ಲಿಲ್ಲಿ ನಿನ್ನಿ ಪ್ರಜ್ಞೆ ಪ್ರತಿಗೆ ಪ್ರತಿಗೆ ಪ್ರತಿಗೆ ಪ್ರತಿಗೆ ಪ್ರತಿಗೆ ಪ್ರತಿಗೆ ಪ್ರತಿಗೆ ಪ್ರತಿಗೆ ಪ್ರತಿಗೆ ಪ್ರತಿ ರಾಜಕಾಗಿ ಪ್ರತಿಗೆ ಪ್ರತಿಗ	ଖ୍ୟ କ୍ଷ୍ୟସମ୍ୟ ଅଧ୍ୟର୍ଷ କ୍ଷ୍ୟ ପ୍ରଥମ୍ୟ ଅଧ୍ୟର ଅଧ୍ୟୟ ଓ ଅଧ୍ୟର ଅଧ୍ୟ ଅଧ୍ୟର ଅଧ୍ୟ ଧୟର ଅଧ୍ୟର ଅଧ୍ୟର ଅଧ୍ୟର ଅଧ୍ୟର ଅଧ୍ୟର ଅଧ୍ୟର ଅଧ୍ୟର ଅଧ୍ୟର	იაციის შენის განის გ იაცის განის გა	$\begin{array}{c} \mathbb{G}_{1}\mathbb{G}_{+}+\mathbb{G}_{0}\mathbb{G}_{+}\mathbb{G}_{+}\\ \mathbb{G}_{2}\mathbb{G}_{+}\mathbb{G}_{+}\mathbb{G}_{+}\\ \mathbb{G}_{2}\mathbb{G}_{+}\mathbb{G}_{+}\mathbb{G}_{+}\\ \mathbb{G}_{2}\mathbb{G}_{+}\mathbb{G}_{+}\\ \mathbb{G}_{2}\mathbb{G}_{2}\mathbb{G}_{+}\\ \mathbb{G}_{3}\mathbb{G}_{2}\mathbb{G}_{2}\mathbb{G}_{2}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\mathbb{G}_{3}\\ \mathbb{G}_{3}\\ $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ତ୍ୟର୍ଗ୍ରେଗ୍ରେମ୍ବ୍ୟୁ ବ୍ୟୁଗ୍ରେଗ୍ରେମ୍ବ୍ୟୁ <del>ପ୍ର</del> େମ୍ବର୍	<u>୧୯୯୯,୯୦୧ ଓଡ଼େ ଜୁବନ୍ତ ଅଟେ ଅନ୍ୟର୍ଶ ଓଡ଼େ ଅଟେ ଅଟେ ଅଟେ ଅଟେ ଅଟେ ଅଟେ ଅଟେ ଅଟେ ଅଟେ ଅଟ</u>	まぷえふふんごこよようちょうならもまちらようなよんできましょう ちょうしょうりゅう ちょすりしょう ちゅうしょう けいしょう しゅうしょく しゅうしゅう	$\frac{1}{10} + \frac{1}{10} $	$^{(4+1)}_{\text{CO}} + ^{(4+1)}_{\text{CO}} + ^{(4+1)}_{\text$	(6.6.3) 74 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	⊕% ⊕% ң%%% ң ң%%% % ң%% €% ⊕% ⊕% ⊕% €% ⊕% ⊕% €% €% €% €% €% €% €% €% €% €% €% €% €%	$\mathbb{S}_{N} \in \mathbb{S} \in \mathbb{S} \in \mathbb{S} \times S$	64,6666664,666 <sub>4,44</sub> 6666 <sub>4,6</sub> 6666664,4866	
				;	;	:	;				;	:	:	:					:	:	:	

19028	Utah. Virginia (total) Virginia (total) White Colored Washington	25.000000000000000000000000000000000000	6.77.9 77.09 11.13.09 10.21	400000x	6.95.95.0 0.95.44.0 0.95.44.0	**************************************	<b>€</b> .65555	<u></u>	910 N N 10 D 01	91915999 91915991 1515589		100-820 100-820 100-820	10-m0+1	5 <u>2</u> 65666	8 <u>7</u> 88888	444%.04% %%/04%0	3145029 2145029	ರಾಜರು — ಅಹರು ಅತ್ತರ ಹೆಗೆ ಹೆ	50%7607 5007607	5454145 1-403009	<u>୍ଟ୍ରେପ୍ରପ୍ର</u>	€_60666	
9 99	<sup>1</sup> Includes ('onnecticut, Maine, Massachusetts, Mis Not added to registration area until a later date.  * Dropped from the registration area.	setts, A	Ii∽biga .c.	n, Min	ts, Mirùigan, Minuesota, New Ha nyshire, New York, Pennsylvania, Rhode Island, Vermout, and District of Columbi : date.	New	Ha nps	hirc, N	ew Ye	rk, Per	ınsylv	ania, 1	Rhode	Island	1, Ver	mont,	and D	istrict	of Col	umbia			

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#### DEATHS DURING WEEK ENDED DECEMBER 9, 1922.

Summary of information received by telegraph from industrial insurance companies for week ended December 9, 1922, and corresponding week 1921. (From the Weekly Health Index, December 12, 1922, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Dec. 9, 1922.	Corresponding week, 1921.
Policies in force	50, 140, 837	47, 857, 387
Number of death claims		8, 609
Death claims per 1,000 policies in force, annual rate	9.9	9.4

Deaths from all causes in certain large cities of the United States during the week ended December 9, 1922, infant mortality, annual death rate, and comparison with corresponding week of 1921. (From the Weekly Health Index, December 12, 1922, issued by the Bureau of the Census, Department of Commerce.)

	Estimated	Week Dec. 9		Annual death rate per		s under rear.	Infant mor- tality
City.	population July I, 1922.	Total deaths	Death rate.1	1,000 corre- sponding week 1921,	Week ended Dec. 9, 1922.	Corre- sponding week 1921.	rate, week ended Dec. 9, 1922.2
Total	28, 356, 508	6, 975	12.8	11.8	895	829	· · · · · · · · ·
Akron, Ohio. Albany, N. Y Atlanta, Ga Baltimore, Md Birmingham, Ala Boston, Mass Bridgeport, Conn Buffalo, N. Y Cambridge, Mass. Camden, N. J Chicago, Ill. Cincinnati, Ohio Cleveland, Ohio Cleveland, Ohio Deltroit, Mich Dallas, Tex Dayton, Ohio Deltroit, Mich Duluth, Minn Eric, Pa Fall River, Mass Flint, Mich Fort Worth, Tex Grand Rapids, Mich Houston, Tex Indianapolis, Ind. Jersey City, N. J Kansas City, Kans Kansas City, Mo Los Angeles, Calif Louisville, Ky Lowell, Mass Memphis, Tenn Milwaukee Wis	* 208, 435 116, 223 220, 047 762, 222 191, 017 764, 017 * 143, 555 528, 163 110, 944 121, 915 2, 833, 288 404, 865 253, 455 267, 591 1 993, 678 1 200, 790 1 114, 717 1 143, 572 1 150, 887 3 33, 288 6 34, 868 6 34, 868 6 34, 868 6 34, 868 6 34, 867 1 11, 423 1 10, 673 1 11, 423 1 11, 42	30 30 68 221 47 223 23 247 25 25 25 28 599 126 173 35 13 35 13 35 13 35 13 13 13 13 13 13 13 13 13 13	7.5 13.5 16.1 15.1 12.8 15.2 9.8 13.4 16.5 12.0 11.0 11.3 11.2 10.6 12.3 11.7 0 11.3 12.7 12.9 14.7 11.8 14.5 13.4 13.4 13.4 13.4 13.4 13.4 13.5 13.8 14.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5	6. 0 17. 7 15. 8 13. 3 12. 0 9. 1 8. 1 10. 9 11. 3 10. 4 15. 6 10. 5 12. 0 13. 2 15. 7 12. 2 15. 7 14. 2 15. 4 11. 7 11. 0 19. 1 14. 2 15. 6 10. 5 10. 5 11. 0 11.	4 2 2 12 34 4 9 29 9 0 0 166 6 84 13 19 9 6 5 4 7 3 2 2 8 8 1 1 100 8 8 9 4 4 11 120 4 6 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 1 3 7 7 7 7 7 7 7 9 9 4 4 13 3 3 7 7 67 7 12 5 6 6 5 5 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6	81 46 39 112 19 15 57 87 82 43 99 76
Minneapolis, Minn Nashville, Tenn New Bedford, Mass New Haven, Conn New Orleans, La New York, N. Y	400, 970 122, 832 127, 542 169, 987 399, 616 5, 839, 716	90 29 23 43 154 1, 259	11. 7 12. 3 9. 4 13. 2 20. 1	7 11.7 3 15.8 4 12.9 2 13.4 1 16.9 2 10.9	31	1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	50 1
Bronx Borough Brooklyn Borough Manhattan Borough Queens Borough Richmond Borough Newark, N. J. Norfolk, Va	2, 117, 164 2, 271, 889 516, 757 124, 401 431, 792	1 425 576 7 91 1 31 2 116	10. 5 13. 5 9. 5 13. 6 14. 6	5 9.2 2 13.1 2 9.7 0 16.3 0 10.9	6 6 10	4 4 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	66 67 9 62 9 54 3 55

Annual rate per 1,000 population.
Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and births for 1921. Cities left blank are not in the registration area for births.
Enumerated population Jan. 1, 1920.

Deaths from all causes in certain large cities of the United States during the week ended December 9, 1922, infant mortality, annual death rate, and comparison with corresponding week of 1921.—Continued.

	Estimated	Week Dec. 9	ended , 1922.	Annual death rate per		s under year.	Infant mor- tality
City.	population July 1, 1922.	Total deaths.	Death rate.	1,000 corre- sponding week 1921.	Week ended Dec. 9, 1922.	Corresponding week 1921.	rate, week ended Dec. 9, 1922.
Omaha, Nebr. Paterson, N. J. Philadelphia, Pa Pittsburgh, Pa Portland, Oreg Providence, R. I. Richmond, Va. Rochester, N. Y. St. Louis, Mo. St. Paul, Minn. salt Lake City, Utah. san Antonio, Tex. San Francisco, Calif. Seattle, Wash. Spokane, Wash. Spokane, Wash. Springfield, Mass. Syraeuse, N. Y. Tacoma, Wash. Toledo, Ohio Trenton, N. J. Washington, D. C. Wilmington, Del. Worcester, Mass. Yonkers, N. Y. Youngstown, Ohio.	138, 521 1, 894, 500 607, 902 607, 902 241, 011 178, 365 311, 548 795, 008 123, 918 178, 056 529, 792 315, 312 104, 445 140, 052 181, 012 100, 369 280, 717 125, 075 347, 571 115, 568 188, 449 105, 422	62 40 611 200 62 64 67 52 190 60 28 8 51 168 55 33 38 42 20 01 112 21 21 21 26 18	16. 1 15. 1 16. 8 17. 2 12. 0 13. 8 19. 6 8. 7 12. 5 11. 8 14. 1 16. 5 9. 1 14. 1 10. 2 16. 2 16. 3 14. 1 10. 2 16. 2 16. 3 16. 3 16. 4 16. 5 16. 5 16	6.3 9.9 12.4 9.8 15.7 14.2 10.6 13.5 12.1 13.3 10.5 10.5 10.5 10.5 13.8	64 7530 48810 10413 7710 1117 534410 10288 11447	77 4 599 299 5 5 166 10 10 11 11 12 5 1 4 7 7 16 6 9 1 5 5 6 6	652 900 990 999 633 120 65 153 46 60 61 120 48 48 77 75 62 26

<sup>&</sup>lt;sup>2</sup> Enumerated population Jan. 1, 1920.

## PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

### UNITED STATES.

#### CURRENT STATE SUMMARIES.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

#### Reports for Week Ended December 16, 1922.

ALABAMA.		1	COLORADO.	
	Case	1	(Exclusive of Denver.)	
Cerebrospinal meningitis	••	i	Cas	es.
Chicken pox		12	Chicken pox	39
Dengue		22	Diphtheria	25
Diphtheria		2	Influenza	3
Hookworm disease	••	- 1	Measles	2
Influenza		4	Mumps	3
Malaria		1	Pellagra	1
Poliomyelitis		8	Pneumonia	4
Scarlet fever.		7	Poliomyelitis	1
Tuberculosis		ıi l	Scarlet fever.	65
Typhoid fever		11	Smallpox	6
ARKANSAS.		- 1	Tuberculosis	29
Chicken pox	<b>.</b> :	35	Typhoid fever	4
Dengue		4	Whooping cough	8
Diphtheria		15	• • •	
Influenza		10	CONNECTICUT.	
Malaria	:	25	Chicken pox	65
Measles.		4	Conjunctivitis	1
Mumps		1	Diphtheria	-
Paratyphoid fever		8	Influenza.	10
Pellagra		1	Measles.	
Scarlet fever		4	Mumps	
Trachoma		16	Pneumonia (lobar)	40
Tuberculosis		15	Poliomyelitis.	1
Typhoid fever		25	Scarlet fever.	-
Whooping cough		17	Smallpox	112.
		- 1	Tuberculosis (all forms)	
CALIFORNIA.			•	3
Cerebrospinal meningitis:		- 1	Typhoid fever	
Alameda		2	Whooping cough	cu
Fresno County	•,• • ;	1	DELAWARE.	
Pasadena	<b>.</b>	1	Anthrax:	
San Francisco		1	Wilmington	. 1
San Luis Obispo County		1	Chicken pov	30
Diphtheria	1	19	Diphtheria	
Influenza		13	Influenza	
Lethargic encephalitis:			Malaria	. 1
Alameda	<b>.</b>	1	Measles	. 38
San Francisco		1	Pneumonia	. 5
Measles.		14	Scarlet fever:	*.
Scarlet fever	1	103	Wilmington	
Smallpox		2	Scattering	. 5
Typhoid fever		5	Tuberculosis	

(3160)

Influenza	INDIANA   Cases
Influenza	Smallpox   70   70   70   70   70   70   70   7
Influenza	Smallpox   70   70   70   70   70   70   70   7
Malaria         35           Pneumonia         33           Scarlet fever         1           Smallpox         9           Trichinosis         1           Typhoid fever         8           GEORGIA         1           Crebrospinal meningitis         1           Chicken pox         13           Dengue         44           Diphtheria         23           Dysentery (bacillary)         2           Hookworm disease         15           Influenza         884           Malaria         10           Measles         2           Mumps         10           Mumps         10           Pratyphoid fever         3           Septic sore throat         2           Septic sore throat         2           Septic sore throat         2           Septic sore throat         2           Septic sore throat         3           Tuberculosis (all forms)         99           Typhoid fever         5           Whooping cough         1           ILLINOIS         1           Cerebrospinal meningitis:         8           Cook Coun	IOWA   DOWA
Pneumonia         33           Scarlet fever         1           Smallpox         9           Trichinosis         1           Typhoid fever         8           GEORGIA         1           Cerebrospinal meningitis         1           Chicken pox         13           Dengue         44           Dengue         44           Diphtheria         23           Dysentery (bacillary)         2           Hookworm disease         15           Influenza         894           Malaria         10           Measles         2           Mumps         10           Measles         2           Presumonia         31           Rabics         1           Scarlet fever         12           Scarlet fever         12           Scarlet fever         2           Smallpox         4           Tuberculosis (all forms)         99           Typhoid fever         5           Smallpox         4           Tuberculosis (all forms)         99           Typhoid fever         5           Whooping cough         1	OWA.   OWA.   Object   OWA.   Object   OWA.   Object   Owarder
Scarlet fever.   1   Smallpox   9   Trichinosis   1   Typhoid fever   8   Second   1   Typhoid fever   8   Second   1   Typhoid fever   1   1   Chicken pox   1   3   Dengue   44   44   Diphtheria   23   Diphtheria   23   Diphtheria   23   Diphtheria   24   Diphtheria   24   Diphtheria   25   Dysentery (bacillary)   2   Hookworm disease   15   Influenza   894   Malaria   10   Malaria   10   Malaria   10   Malaria   10   Measles   2   Mumps   10   Second   10	HOWA.   Diphtheria   Got
Smallpox         9           Trichinosis         1           Typhoid fever         8           GEORGIA.         1           Cerebrospinal meningitis         1           Chicken pox         13           Dengue         44           Diphtheria         23           Dysentery (bacillary)         2           Hookworm disease         15           Influenza         894           Malaria         10           Measles         2           Mumps         10           Preumonia         31           Rabies         1           Serptic sore throat         2           Septic sore throat         2           Septic sore throat         2           Semallpox         4           Tuberculosis (all forms)         99           Typhoid fever         5           Whooping cough         1           ILLINOIS         8           Cerebrospinal meningitis:         8           Cook County         1           Henry County         2           Knox County         1           Pulaski County         1           Diphtheria:	Diphtheria   6
Typhoid fever	KANSAS.
Typhoid fever	KANSAS.
Cerebrospinal meningitis	KANSAS.
Cerebrospinal meningitis	KANSAS.
Chicken pox.	Chicken pox
Dengite	nfluenza     133       falaria     4       feasles     1       fumps     14       neumonia     28       foliomyciitis     28
Designation	nfluenza     133       falaria     4       feasles     1       fumps     14       neumonia     28       foliomyciitis     28
Diphithetia   23   15   16   16   16   16   16   16   16	Ialaria       4         feasles       1         fumps       14         neumonia       28         foliomyciitis       28
Dysentery (bacteriary)   2   1   1   1   1   1   1   1   1   1	1   1   1   1   1   1   1   1   1   1
Hookworm disease	Numps. 9 10umps. 14 Preumonia 29 Poliomyciitis 29
Influenza	Poliomyelitis 14
Maiara.         10           Measles.         2           Mumps.         10           Paratyphoid fever.         3           Pneumonia.         31           Rabies.         1           Scarlet fever.         12           Septic sore throat.         2           Semallpox.         4           Tuberculosis (all forms).         99           Typhoid fever.         5           Whooping cough.         1           ILLINOIS.         S           Cerebrospinal meningitis:         8           Cook County.         1           Henry County.         2           Knox County.         1           Pulaski County.         1           Diphtheria:         Cook County (including Chicago).         254           Chicago.         217         M           Du Page County.         12         M           Fulton County.         11         M           Kane County.         10         T           Will County.         10         T           Will County.         10         T           St. Clair County.         10         T           Poliomyelitis:         <	oliomyclitis
Measies   2   2   3   5   5   5   5   5   5   5   5   5	Onomy cittle
Mumps	
Paralyphodu reversion   3   3   7   7   7   7   7   7   7   7	cariet lever
Preminions	in pox
Rabies	otanus
Searite 1ever   12   2   5   5   5   5   5   5   5   5	rachoma
Septic sore throat   2   3   4   5   5   5   5   5   5   5   5   5	
Smalipox.         4           Tuberculosis (all forms).         99           Typhoid fever.         5           Whooping cough.         1           ILLINOIS.         S           Cerebrcspinal meningitis:         S           Cook County.         1           Henry County.         2           Knox County         1           Pulaski County         1           Cook County (including Chicago)         254           Chicago.         217           Du Page County.         12           Fulton County.         11           Kane County.         9           Lake County.         14           St. Clair County.         10           Will County.         11           Scattering.         161           Influenza.         37           Pneumonia.         340           Poliomyelitis:         Chicago.         1           Chicago.         1         D           St. Clair County.         2         D           Scarlet fever:         1         Cook County (including Chicago).         93           Chicago.         84         M           Fulton County         84	ymioid lever
Tubercutosis (an torins) 99 Typhoid fever 5 Whooping cough 1 ILLINOIS.  Cerebrespinal meningitis: S Cook County 1 Henry County 2 Knox County 1 Pulaski County 1	HUODING COUGH
Typhoid fever	13
ILLINOIS.   S   Cerebrospinal meningitis:	LOUISIANA.
ILLINOIS.   S   S	engue 1 123
Cerebrospinal meningitis: S   Cook County   1   T   T   T   Henry County   2   Knox County   1   1   T   T   T   T   T   T   T   T	ipitheria
Cook County. 1 1  Henry County. 2  Knox County 1 1  Pulaski County 1 1  Cook County (including Chicago) 254  Chicago 217  Du Page County 11 Pulaski Pulaski County 11 Pulaski Pulaski County 11 Pulaski Pulaski Co	ariet iever
Henry County	manpox
Henry County   2   Knox County   1   1   1   1   1   1   1   1   1	yphoid fever 22
Knox County	22
Pulaski County	MAINE.
Diphtheria:	hicken pox
Chicago	
Chicago   217   March	illianza
Du Page County   12	easles
Fulton County	umps 9
Kane County.       9       P         Lake County       14       S         St. Clair County.       10       T         Will County.       11       T         Seattering.       161       Influenza.         Preneumonia.       340         Poliomyelitis:       C         Chicago.       1       D         Johnson County.       2       D         St. Clair County.       1       G         Cook County (including Chicago).       93       M         Chicago.       84       M         Fulton County       M       M	neumonia
Lake County	Minmuolitie
St. Clair County   10   T   Will County   11   T   Scattering   161   Influenza   340   Poliomyelitis:   Chicago   1   D   Johnson County   2   St. Clair County   1   G   Gearlet fever:   Cook County (including Chicago)   93   M   Chicago   84   M   Fulton County   54   M   Fulton County   54   M   Fulton County   55   M   M   Fulton County   56   M   M   Fulton County   57   M   M   M   Fulton County   58   M   M   M   M   M   M   M   M   M	arlat favor
Will County	ahommalooid
Scattering   161   William   Willi	
Influenza	vphoid fever
Preumonia	yphoid fever
Colomyelitis:	yphoid fever. 9 hooping cough. 27
1 D   Dohnson County   2 D   St. Clair County   1 G   Gearlet fever:   Ir Cook County (including Chicago)   93 M   Chicago   84 M   Fulton County	yphoid fever
Jonnson County	phoid fever. 9  'hooping cough 27  MARYLAND. <sup>2</sup>
St. Clair County	Photod fever
Cook County (including Chicago)	Photod fever. 9   Photoping cough 27
Chicago 84 M Fulton County	Photol fever. 9   Photoping cough 27
Fulton County 84 M	Photol fever. 9   Photol fever   9   Photol fever   9   Photol fever   27   Photol fever   130   Photol fever   130   Photol fever   9   Photol fever   9   Photol fever   9   Photol fever   130   Photol fever   9   Photol fever   130   Ph
Fulton County	Photol fever. 9   Photol fever   9   Photol fever   9   Photol fever   27   Photol fever   130   Photol fever   130   Photol fever   99   Photol fever   99   Photol fever   96   Photol
	Proposition
T- C-11 C	Proposition
madison County	Phooping cough   27   27   27   27   27   27   27   2
Peoria County	Proposition
	Proposition
scattering	Proposition
	Proposition
	Proposition
Vhooping cough	Propose   Prop
129 - 441 W	Propose   Prop
138 of these cases occurred prior to week ende	MARYLAND.2

MASSACHUSETTS.	- 1	MONTANA.	
Cas	es.	C	ases.
Actinomycosis	1	Diphtheria	
Cerebrospinal meningitis	3	Scarlet fever.	. 6
		C. I	. 9
Chicken pox		Smallpox	. 1
Conjunctivitis (suppurative)	5	Typhoid fever	9
Diphtheria	266		. 4
German measles.		NEBRASKA.	
		Chielean new	
Influenza	20	Chicken pox	- 26
Lethargic encephalitis	1	Diphtheria:	
Measles.	. 1	Omaha	
		Wymore	. 9
Mumps		wymore	- 17
Ophthalmia neonatorum	16	Scattering	. 17
Pneumonia (lobar)	148	German measles.	
		Influenza	_
Scarlet fever	- 1	Lethargic encephalitis:	- 3
Septic sore throat	1		
Tetanus.	2	Collegeview	. 1
Trachoma	3	Measles	-
		Mumps	
Trichinosis	2	manips	. 2
Tuberculosis	148	Pneumonia	. 2
Typhoid fever	8	Searlet fever.	60
	1	Smallpox	
Whooping cough	291	Martin Control of the	. 10
	1	Tuberculosis.	. 1
MICHIGAN.	- 1	Typhoid fever	. 6
	- 1	Whooping cough	• ;
Diphtheria	240		
Measles	131	NEW JERSEY.	
Pneumonia			
		Cerebrospinal meningitis	9
Scarlet fever		Chicken pox	• ~ ~
Smallpox	67	The Late of	. 238
Tuberculosis	46	Diphtheria	. 290
		Influenza	. 29
Typhoid fever		Measles	719
Whooping cough	138	Pneumonia	. /12
	1	1 IICCCC 100 IICCC 100 IIC	. 100
MINNESOTA.		Poliomyelitis	. 1
MINNESOTA.		Poliomyelitis	. 1
	1	Poliomyelitis. Scarlet fever.	. 1 . 147
Cerebrospinal meningitis		Poliomyelitis. Scarlet fever. Trachoma.	. 147
Cerebrospinal meningitis.	31	Poliomyclitis Scarlet fever Trachoma Typhoid fever	. 147 . 147
Cerebrospinal meningitis	31	Poliomyclitis Scarlet fever Trachoma Typhoid fever	. 147 . 147
Cerebrospinal meningitis.	31 131	Poliomyelitis Scarlet fever. Trachoma Typhoid fever. Whooping cough.	. 147 . 147
Cerebrospinal meningitis Chicken pox Diphtheria Measles	31 131 70	Poliomyclitis Scarlet fever Trachoma Typhoid fever	. 147 . 147
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia	31 131 70 7	Poliomyclitis. Scarlet fever. Trachoma. Typhoid fever. Whooping cough. NEW MEXICO.	. 147 . 147 . 16
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pineumonia Scarlet fever	31 131 70 7 243	Poliomyelitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox.	147 147 16 16 158
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia	31 131 70 7 243	Poliomyelitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO, Chicken pox. Diphtheria	147 16. 16 158
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox.	31 131 70 7 243 60	Poliomyelitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO, Chicken pox. Diphtheria	147 16. 16 158
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pheumonia Scarlet fever Smallpox Tuberculosis	31 131 70 7 243 60 55	Poliomyelitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles	147 147 16. 168 158
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	31 131 70 7 243 60 55 6	Poliomyclitis. Scarlet lever. Trachoma. Typhoid fever. Whooping cough.  NEW MEXICO. Chicken pox. Diphtheria. German measles. Influenza.	147 16. 168 158 158
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pheumonia Scarlet fever Smallpox Tuberculosis	31 131 70 7 243 60 55 6	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis	1 147 1 16 1 158 1 158
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pheumonia Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough	31 131 70 7 243 60 55 6	Poliomyclitis. Scarlet lever. Trachoma. Typhoid fever. Whooping cough.  NEW MEXICO. Chicken pox. Diphtheria. German measles. Influenza.	1 147 1 16 1 158 1 158
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	31 131 70 7 243 60 55 6	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis	147 16. 16 158 158
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pineumonia Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough	31 131 70 7 243 60 55 6 12	Poliomyelitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza. Lethargic encephalitis Measles. Pneumonia.	147 16. 168 158 158 15. 21
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pheumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough MISSISSIPT, Dengue.	31 131 70 7 243 60 55 6 12	Poliomyelitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox. Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever	147 16. 158 158 15. 21 1 1
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pheumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI Dengue Diphtheria	31 131 70 7 243 60 55 6 12	Poliomyclitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox	. 1 147 . 147 . 158 . 158
Cerebrospinal meningitis Chicken pox Diphtheria Measles Pheumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough MISSISSIPT, Dengue.	31 131 70 7 243 60 55 6 12	Poliomyelitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox. Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever	. 1 147 . 147 . 158 . 158
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPPI. Dengue. Diphtheria. Scarlet fever.	31   131   70   7   243   60   55   6   12   4   30   10	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Pneumonia Scarlet fever Smallpox Tuberculosis	. 147. 147. 158. 158. 158. 159. 159. 159. 159. 159. 159. 159. 159
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pineumonia Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough MISSISSIPPI. Dengue. Diphtheria Scarlet fever. Small pox.	31   131   70   7   243   60   55   6   12   4   30   10   5	Poliomyclitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox	. 147. 147. 158. 158. 158. 159. 159. 159. 159. 159. 159. 159. 159
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPPI. Dengue. Diphtheria. Scarlet fever.	31   131   70   7   243   60   55   6   12   4   30   10   5	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	. 147. 147. 158. 158. 158. 159. 159. 159. 159. 159. 159. 159. 159
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever.	31   131   70   7   243   60   55   6   12   4   30   10   5	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	. 147. 147. 158. 158. 158. 159. 159. 159. 159. 159. 159. 159. 159
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pineumonia Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough MISSISSIPPI. Dengue. Diphtheria Scarlet fever. Small pox.	31   131   70   7   243   60   55   6   12   4   30   10   5	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	. 147. 147. 158. 158. 158. 159. 159. 159. 159. 159. 159. 159. 159
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPFI. Dengue. Diphtheria. Scarlet fever. Small pox Typhoid fever. MISSOURI.	31 131 70 7 243 60 55 6 12 4 30 10 5	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox. Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox. Tuberculosis Typhoid fever  NEW YORK. (Exclusive of New York City.)	1 147 147 147 147 147 147 147 147 147 14
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pineumonia Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough  MISSISSIPFI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSISSIPFI.  MISSISSIPFI. Chicken pox.	31 131 70 7 243 60 55 6 12 4 30 10 5 7	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox. Diphtheria. German measles Influenza. Lethargic encephalitis. Measles. Pneumonia. Scarlet fever Smallpox. Tuberculosis. Typhoid fever.  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis.	1 147 147 147 147 147 147 147 147 147 14
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pineumonia Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever.  MISSISSIPPI.  Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever.  MISSOURI. Chicken pox. Diphtheria	31 131 70 7 243 60 55 6 12 4 30 10 5 7	Poliomyclitis. Scarlet fever. Trachoma. Typhoid fever. Whooping cough.  NEW MEXICO. Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever.  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis.	1 147 147 148 148 148 148 148 148 148 148 148 148
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pineumonia Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough  MISSISSIPFI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSISSIPFI.  MISSISSIPFI. Chicken pox.	31 131 70 7 243 60 55 6 12 4 30 10 5 7	Poliomyclitis. Scarlet fever. Trachoma. Typhoid fever. Whooping cough.  NEW MEXICO. Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever.  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis.	1 147 147 148 148 148 148 148 148 148 148 148 148
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough  MISSISSIPFI, Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat	31 131 70 7 243 60 55 6 12 4 30 10 5 7	Poliomyclitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox. Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis Diphtheria Influenza.	1 147 147 148 148 148 148 148 148 148 148 148 148
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPFI. Dengue. Diphtheria. Scarlet fever. Small pox Typhoid fever. MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza.	31 131 70 7 243 60 60 55 6 12 4 30 10 5 7	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever  NEW YORK (Exclusive of New York City.) Cerebrospinal meningitis Diphtheria Influenza Lethargic encephalitis	1 147 147 147 147 147 147 147 147 147 14
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Picumonia Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough  MISSISSIPFI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza. Measles.	31 131 70 7 243 60 60 55 6 12 4 30 10 5 7	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis Diphtheria Influenza Lethargic encephalitis. Measles Lethargic encephalitis Measles Lethargic encephalitis	1 147 147 148 148 148 148 148 148 148 148 148 148
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pineumonia Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever.  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza. Measles. Pneumonia.	31 131 70 7 243 60 55 6 12 4 30 10 5 7 7 85 3 9 1	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever  NEW YORK (Exclusive of New York City.) Cerebrospinal meningitis Diphtheria Influenza Lethargic encephalitis	1 147 147 148 148 148 148 148 148 148 148 148 148
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pineumonia Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough  MISSISSIPPI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever.  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza. Measles. Pneumonia.	31 131 70 7 243 60 55 6 12 4 30 10 5 7 7 85 3 9 1	Poliomyclitis. Scarlet fever. Trachoma. Typhoid fever. Whooping cough.  NEW MEXICO. Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever.  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis. Diphtheria. Influenza. Lethargic encephalitis. Measles. Pneumonia.	1 147 148 148 148 148 148 148 148 148 148 148
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough.  MISSISSIPH. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza. Measles. Pneumonia. Scarlet fever.	31 131 70 7 243 60 55 6 12 4 30 10 5 7 7 17 85 3 9 1 4 84	Poliomyclitis. Searlet fever. Trachoma. Typhoid fever. Whooping cough.  NEW MEXICO. Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever.  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis. Diphtheria. Influenza. Lethargic encephalitis. Measles. Preumonia.	1 147 148 158 158 158 158 158 158 158 158 158 15
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPFI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza. Measles. Pneumonia. Scarlet fever. Smallpox.	31 131 70 7 243 60 55 6 12 4 30 10 5 7 7 85 3 9 1 4 4 84 10	Poliomyelitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis Diphtheria Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever	1 147 148 158 158 158 159 159 159 159 159 159 159 159 159 159
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pieumonia Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough  MISSISSIPFI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza. Measles. Pneumonia. Scarlet fever. Small pox Trachoma	31 131 70 7 243 60 55 6 12 4 30 10 5 7 7 85 3 9 1 4 84 10 10 10 10 10 10 10 10 10 10 10 10 10	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Scarlet fever Smallpox  SEW YORK  (Exclusive of New York City.)	1 147 148 148 148 148 148 148 148 148 148 148
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough  MISSISSIPFI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza. Measles. Pneumonia. Scarlet fever. Smallpox.	31 131 70 7 243 60 55 6 12 4 30 10 5 7 7 85 3 9 1 4 84 10 10 10 10 10 10 10 10 10 10 10 10 10	Poliomyclitis Scarlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Scarlet fever Smallpox  SEW YORK  (Exclusive of New York City.)	1 147 148 148 148 148 148 148 148 148 148 148
Cerebrospinal meningitis Chicken pox. Diphtheria. Measles. Pieumonia Scarlet fever. Smallpox. Tuberculosis Typhoid fever Whooping cough  MISSISSIPFI. Dengue. Diphtheria Scarlet fever. Small pox Typhoid fever  MISSOURI. Chicken pox. Diphtheria Epidemic sore throat Influenza. Measles. Pneumonia. Scarlet fever. Small pox Trachoma	31 131 70 7 243 60 55 6 12 4 30 10 5 7 7 85 3 9 1 4 84 10 11 3	Poliomyelitis Searlet fever Trachoma Typhoid fever Whooping cough  NEW MEXICO. Chicken pox Diphtheria German measles Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever  NEW YORK. (Exclusive of New York City.) Cerebrospinal meningitis Diphtheria Influenza Lethargic encephalitis Measles. Pneumonia Scarlet fever	1 147 148 148 148 148 148 148 148 148 148 148

NORTH CAROLINA.	ases.	WASHINGTON.
Cerebrospinal meningitis	ases. . 1	1
Chicken pox	102	Chicken Dox
Diphtheria	110	
German measles	. 4	
Measles		
Scarlet fever		
Septic sore throat		
Smallpox		
Trachoma	. 30	
Typhoid fever	. 1	
Whooping cough	. 11	
W Hooping Coagn	. 88	
OREGON.		
Chicken pox	33	WEST VIRGINIA.
Diphtheria:		Diphtheria:
Portland	13	Charleston Huntington
Scattering	19	
Measles	19 5	
Pneumonia	15	
Scarlet fever	10	Typhoid fever.
Septic sore throat	16	
Smallpox	11	WYSGON
Tuberculosis		WISCONSIN. Milwaukee:
i dibercutosis	20	
SOUTH DAKOTA.		Cerebrospinal meningitis.
Actinom yeosis		Chicken pox.
Diphtheria	1	Dipitueria
Pneumonia	7	Tacasies
Corlet fewer	4	I Licamonia.
Scarlet fever.	61	Scarlet lever
Smallpox	12	1 uperculosis
Cuberculosis	6	whooping cougn
TEXAS.		scattering:
crebrospinal meningitis	3	Cerebrospinal meningitis.
Dengue	-	Cincken Dox
Diphtheria	30	Dipiniciti is
nfluenza	61	German measies
feasles.	6	imidenza
ellagra	23	Measles
neumonia	11	Opithalmia neonatorum
carlet fever	10	r neumonia
carlet fever.	24	Scarlet lever
yphoid fever	6	Smanpox
VERMONT.		Trachoma
hicken pox	50	Tuberculosis
easies	4	Typhoid fever
umps	2	Whooping cough
neumonia.	- 1	
carlet fever.	2	WYOMING.
malinox	28	
mallpox	2	Chicken pox.
yphoid fever	3	Scariet lever.
ACCRITICAL COLLEGE	73	0
hooping cough  Deaths.	72	Smallpox

#### Reports for Week Ended December 9, 1922.

#### DISTRICT OF COLUMBIA. Scarlet fever..... 25 Chicken pox..... 22 Typhoid fever..... Lethargic encephalitis..... Measles..... KENTUCKY. Pneumonia..... 24 Cerebrospinal meningitis: Scabies..... Montgomery County..... Chicken pox..... Septic sore throat..... 1 Diphtheria: Smallpox..... 1 Jefferson County..... 22 Trachoma ...... 10 Scattering...... 15 Influenza..... Tuberculosis: Jefferson County..... 21 Measles: Scattering..... McCracken County..... 97 Scattering...... 16 Typhoid fever..... 10 Whooping cough...... 15

#### SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
NOVEMBER, 1922.  District of Columbia Illinois. Nebraska North Dakota Vermont	6 3 1	2, 297 219 38 44	5 81 4	22 1	8 606 11 16 14		17 1 3 3	50 1, 419 322 144 113	179 5 39	9 173 13 26 5

#### CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922.

#### CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years," gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City. for p	Median for pre-			City.	Median for pre-	Week ended Dec. 2, 1922,	
	years.	Cases.	Deaths.	1	years.	Cases.	Deaths
Alabama: Birmingham	0	1		New Jersey: Newark	0		1
Connecticut: MeridenIllinois:	0	1	1	Plainfield New York: New York	5	1 3	
Galesburg Kentucky:	0	1	. 1	Rome	0		
Louisville Massachusetts:	0	1	i	Akron Tennessee:	0	1	· · · · · · ·
AdamsBoston	0	1		Nashville Texas:	0		
Gardner	0	1		Dallas	0	1	
Detroit	1	1	1	Milwaukee	1	1	
Omaha	0	1	1			l	l

## CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. DENGUE.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Georgia: Albany	2		Louisiana: New Orleans	36	•••••

#### DIPHTHERIA.

See p. 3170; also Current State summaries, p. 3160; and Monthly summaries, by States, p. 3164.

INFLUENZA.

	Cas	es.	Deaths,		Cas	es.	Deaths.
City.	Week ended Dec. 3, 1921.	Week ended Dec. 2, 1922.	week ended Dec. 2, 1922.	City,	Week ended Dec. 3, 1921.	Week ended Dec. 2, 1922.	week ended Dec. 2, 1922.
Alabama:				Missouri:			
Mobile			1	Kansas City	1	1	
Arkansas: Little Rock	1			St. Louis		1	· · · · · · •
California:	•			Missoula		1	1
Los Angeles	5	5		New Jersey:		_	_
Oakland		1		Bayonne		1	
San Francisco	4	2	2	Hackensack	1		<b>-</b>
Connecticut:			1	Kearny Montclair	1		
Bridgeport New Britain	·····i		1	Newark			
District of Columbia:	1 .		1	Orange			1
Washington	3	2	1	Trenton			
Florida:	1		· ·	New York:			
Tampa	6	1		Albany	2		
Georgia:		İ	į	Cohoes	2		1
Albany				New York	13	43	11
Atlanta		3 6	1	Niagara Falls Syracuse	1 1	i	1
Macon				North Carolina:			
Chicago	20	7	2	Durham	1		1 1
East St. Louis		i	l	Raleigh			. 1
Kansas:		_		Ohio:	1	l	1
Kansas City		1		Cincinnati	1	· · · · · · · · · · · · · · · · · · ·	.] 1
Topeka	1			Cleveland	1 1	1	
Kentucky:	1	1		Steubenville		1	
Louisville		1		Oregon: Portland	1		1 ,
New Orleans	2	1	1	Ponneylvania:			1
Maryland:	1 -		1 *	Philadelphia	1	2	
Baltimore	5	14	2	II Rhode Island:	1		i
Massachusetts:			1	Providence			.  :
Arlington				Virginia:		1	
Beverly		1 2		Roanoke West Virginia:	. 3		
Boston	4		_	Clarksburg	1	1	1 :
Fall River	1			Huntington	1	1	
Fitchburg		i		Wicconcin.	i	i	1
Lynn				Wausau	. 3		.
Michigan:	1	1	1		1	1	1
Detroit	. 1	2		I	1	1	1
Highland Park	.	. 1			1	1.	
Saginaw		. 1					1

#### LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.
California: Oakland	1	

## CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. MALARIA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Arkansas: Little Rock. California: Los Angeles Florida: Tampa Georgia Atlanta.	1 1 1 2	1	Georgia — Continued.  Macon Savannah. Ohio: Cleveland. Texas: Houston.	4	i

#### MEASLES.

See p. 3170; also Current State summaries, p. 3160; and Monthly summaries by States, p. 3164.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama: Birmingham	1	1	Texas: Houston		1

#### PNEUMONIA (ALL FORMS).

Alabama:	1	Indiana—Continued.	1
Birmingham	. 6	Hammond	
California:	1	Indianapolis	1
Alameda	. 2	La Fayette	.) -
Glendale		South Bend	
Long Beach	1 2	Terre Haute.	
Los Angeles		Iowa:	-1 .
Oakland.	10 10	Burlington	.  :
Riverside. 2		Council Bluffs	1 :
Sacramento		Kansas:	-1
	, ,	Fort Scott	١.
San Bernardino		Fort Scott	-
San Diego		Kansas City 3	
San Francisco		Lawrence	
Stockton	. 3	Salina 1	
Colorado:	1 -	Topeka5	1 :
Denver.		Wichita	-1
Pueblo	1	Kentucky:	1
Connecticut:		Covington	_1
Bridgeport	1 1	Louisville	. 1
Bristol	. 1	Louisiana:	1
Hartford	. 2	New Orleans	. 1
New Haven	. 5	Maine:	ì
New London	i i	Auburn	1
Waterbury	··) 3	Bangor 5	1
District of Columbia:		Portland	1
Washington	24	Maryland:	-
Florida:		Baltimore 44	.   2
Tampa	1 3	Cumberland	
Georgia:		Massachusetts:	
Atlanta	14	Amesbury	[
Brunswick.		Anlington	-1
Savannah	1	Arlington	1
Illinois:	0	Attleboro	-
	1 .	Belmont	
Aurora.	1	Boston	.  3
Chicago 12		Braintree 1	
	6 3	Cambridge 7	1
East St. Louis	1	Chelsea	-1
Elgin		Chicopee	-1
	1	Clinton 3	: 1
Jacksonville	4 2	Everett	;
Kewance		Fall River	i
Mattoon	1	Framingham	اء
Oak Park	1	Haverhill 4	1
Peoria	2	Holyoke	
Quincy	1	HolyokeLawrence	1
Rockford	3	Leominster	
Springfield	2	Lowell	
Indiana:		Lynn	.1
Anderson	1	Wolden	!
East Chicago		Malden	, I
Gary	3	Medford	-1
Gary	3	Melrose	.,

### CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Death
assachusetts - Continued.			New York-Continued.		
	4	3	Olean		٠
Newton	1		Peekskill		
D-ahadii		1	Port Chester.	1	
73°44G=1.d		.,	Poughkeepsic	2	
Quincy	(	ĩ	Rochester.		
Salem	3	i	Rome	15	
Vornorville	3		Schenectady	2	l
	9	4	Syracuse	6	
Winthrop	1	i	Troy.	14	
Worcester		. ĝ	Watertown		
ichigan:			Yonkers		
Detroit	44	27	North Com-Vin	1	
Flint	1	-2	North Carolina:	1	i
Grand Rapids	6	2 2	Charlotte.		1
		4	( Crecusbolo		1
	1	4 2	Salisbury		
Jackson	1		Wilmington	ļ	!
	1	5	Ohio:		l
Marquette	1		Akron	1	<b> </b>
Muskegon	1 1	2	Barberton	1	
Port Huron	1	ĩ-	Canton		
	1	1 1	Cincinnati		
innesota: Duluth	3		Uleveland	24	l
Minneapolis	1 "	10	Columbus		1
Rochester	1		Dayton	1	
Winona	1 1	i	Fremont	. 1	
		•	Kenmore		l
lissouri: Kansas City	19	17	Lorain	. 1	
Kansas (1t)		1 3	Mansfield	.	
St. Joseph		ľi	Newark	. 1	l
Springheta			Salem	.1	
lontana:	1	2	Sandusky		
Great Falls	2	î	Springfield	1	
Missoula	-   -	1	Toledo. Youngstown		
ebraska:	1	1 1	Youngstown		1.
Lincoln		5	Oklahoma:	1	
Omaha		9	Oklahoma	İ	
ew Hampshire:	1		Oregon:	1	i
Concord		1	Portland		l
ew Jersey:	. 1	ł	Pennsylvania:	1	ł
BayonneBloomfield	·i •	i	Philadelphia	. 96	į .
	-	2	Rhode Island:	1 30	
Clifton East Orange	4	1 -	Cranston	1:	1
Garfield	1 2		Pawtucket	J	1
Harrigan		1	Providence.		1
Hoboken	1 1	4	South Carolina:	1	i
Jersey City	. 3	1 *	Charleston	.1	1
Kearny	1 ,	i	South Dakota:	1	1
Montclair	.]····i	1 *	Sioux Falls	. 2	1
Morristown		ii	Tennessee:	i -	İ
Newark	. 69	12	Memphis		.l
Orange	. 6	4	Nashville		
Passaic	. 4	3	Texas:	1	ł
Paterson	. 3	1	Dallas		ı
Perth Amboy		1	El Paso		.1
Phillipsburg.	1	2	Fort Worth		.i
Phillipsburg Plainfield.	4	1	Houston		.l
Tronton	1 17.7	4	Waco		1
West Hoboken West New York	]	1 2	Utah:		1
West New York	1	ī	Salt Lake City	.1	.1
iew Mexico:	1	ł	Virginia:	ı	1
Albuquerque	.1	. 2	Norfolk	. 2	1
ew York:	1	1 -	Petersburg	.1	.1
Albany.	. 18	1	Portsmouth	-!	.)
Auburn	J	. 1	Richmond		.1
Buffalo.	.1 37	8	Roanoke		.
Elmira			West Virginia:	1	1
Hornell	1	. 1	Clorkshurg		.1
Ithaca		1 2	Huntington		-1
Jamestown	2		1) Parkersourg	-'	1
Lackawanna	. 2		Wheeling		1
Lockport	1 "	i	Wisconsin:	1	1
Middletown	i		Fond du Lac	. 5	1
Newburgh	1 î		Milwaukee	. 3	1
Newburgh	258		Superior		.1
Niagara Falls	. 6		Wyoming:	1	1
North Tonawanda	1	.  î	Cheyenne	.1	-1
Ogdensburg	-1	:  i	11	1	1

### CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued.

#### PCLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years," gives the median number of cases reported durin; the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City. for	Median for pre-	for pre-		City.	Median for pre-	Week ended Dec. 2, 1922.	
	vious years.	Cases.	Deaths.		years.	Cases.	Deaths.
Illinois: Chicago Kentucky: Lexington Maryland: Baltimore. Massachusetts: Boston. Lynn	0 0 0	3 1 2 1	1	New Jersey: Paterson. West New York. New York. New York Syracuse. Texas: Fort Worth. Virginia: Norfolk.	0 0 3 0 0	1 1 1 1 1	2

#### RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California: Los Angeles. Oakland. Missouri: Kansas City. New Jersey: East Orange.		New York: Hudson West Virginia: Morgantown	1 3

#### SCARLET FEVER.

See p. 3170; also Current State summaries, p. 3160; and Monthly summaries by States, p. 3164.

SMALLPOX.

The column headed "Median for previous years," gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-	- Det. 2, 1922.		City.	Median for pre- vious	Week ended Dec. 2, 1922.	
ca.j.	vious years.	Cases.	Deaths,		years.	Cases.	Deaths.
Alabama: Birmingham	0	1		New York: New York. Niagara Falls. North Carolina:	0	1	
Los Angeles Oakland San Francisco Stockton	2	$\begin{array}{c} 2\\1\\1\\2\end{array}$		Winston-Salem Ohio: Akron	, 0	5 1	
Colorado: Denver Pueblo		24 1	15	DaytonSanduskyOregon:	0 0 2	1 2 5	
Illinois: Alton	0	1 1		Pennsylvania: Philadelphia Tennessee:	0	1	
Indiana: Indianapolis Iowa:	1	5 2		Knoxville	3	10 3	
Council Bluffs Michigan: Flint	1	1	1	Virginia: Alexandria Washington:	1	1	ļ
Minnesota: Duluth Minneapolis		5 4		Bellingham Spokane Wisconsin:	1	5	
Montana: Great Falls	0	2		Ashland		15	

## CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued, TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
California: Los Angeles Illinois: Jacksonville Minnesota: Minneapolis	1	1 2	New York: Middletown Ohio: Cleveland Texas: Beaumont	1 2	1 1

#### TUBERCULOSIS.

See p. 3170, also Current State summaries, p. 3160.

#### TYPHOID FEVER.

The column headed "Median for previous years," gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious	Week Dec.	ended 2, 1922.	City.	Median for pre-	Week ended Dec. 2, 1922.		
	vious vious		Deaths.	· -	vious years.	Cases.	Deaths	
Jabama:				Michigan-Continued.				
Birmingham	3	- 3		Muskegon	0	1		
rkansas:			1 1	Saginaw	0	1		
Little Rock	1	1		Minnesota:		1		
'aliforma:			1	Duluth	1			
I o: Angeles	2	4 2	1	Minneapolis	2	2		
Oakland	6	1		Missouri:	1			
Sacramento	1 0	1		Kansas City St. Joseph	6	2		
Stockton	U	1		St. Louis.	5	2		
Pueblo	0	1		Montana:	"	-		
Trinidad	lŏ	i		Missoula	0	1 1		
onnecticut:	1	•		New York:				
Bridgeport	l o	1		Albany	1	1		
New Haven	l ő	i		Middletown	0	ī	1:	
lorida:	ľ	-		New York	18	16		
Tampa	0		1	Syracuse		1		
eorgia:	ľ		1	Troy	0	2	1	
Ätlanta	0	1	1	Yonkers	0	1		
Brunswick	0	1	1	Ohio:		1 -	1	
Savannah	0	1		Cleveland	1 1	1	İ	
Hineis:	_		1	Piqua	0	5		
Chicago	7	3		Steubenville	0 2	1 1		
Jacksonville	0	9		Oregon:	-	1 1		
ndiana: Indianapolis	1	1	1	Portland	1	1 1	1	
- mulanapons Kansas:	1			Pennsylvania:		1 *		
Topeka	0	1	1	Lancaster	. 0	1		
Wichita		1 3		Philadelphia	7	4		
Kentucky:	1	"	1	Shenandoah	. 0	1		
Louisville	2	2	1	Rhode Island:	1	İ	ļ	
ouisiana:	1	1		Providence	. 1	2		
New Orleans	.] 1	3		Tennessee:	1 .	١.	1	
sfaine:	1	1	i	Memphis	. 1	1		
Bangor	. 0	1		Virginia:	0	1 1	1	
Maryland:	1 .		1	Roanoke	. 0	1	1	
Baltimore	. 1	3		Washington: Seattle	0	3	1	
Massachusetts:	. 2	3	1	Tacoma		li	1	
Boston Leominster	0	i		West Virginia:	١ ،	1 -		
Lowell	. 6	2		Bluefield	. 1	1 1	1	
Lynn	: V	1		Charleston		i	1	
New Bedford	' i	i		Clarksburg		. 2	1	
Quincy	ò	i		Huntington		1	1	
Taunton	ŏ	li		Wisconsin:	1	1	1	
Worcester				Madison			<b></b>	
Michigan:	4	1	1	Racine				
Detroit	. 4	4		Superior	. 0		·l	
Ironwood	. 0	1 1	1	Wausau	. 0	1	1	

# CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.		deaths				- 1			vuit	SIS.
	Popula- tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:				١			•			
Birmingham	178, 806 60, 777	55 25	8	1			2		5	5
Mobile	43 464	11	1			• • • • • •	1	• • • • • •		1
Tuscaloosa	43, 464 11, 996		2							1
Arkansas:		4	•	:						
Hot SpringsLittle Rock	11,695 65 142	*	4				3			2
North Little Rock	65, 142 14, 048		1				í	i	3	• • • • • •
California:	1	10			l		_		:	•••••
Alameda Eureka	28, 806 12 923	10	7	1	i		1		. 1	
Glendale	12, 923 13, 536	6								
Long Reach	1 55.593	17	6		1		3		4	١
Los AngelesOakland	576, 673	166 44	32 16		1 1		44 15		30	21
Pasadena	216, 261 45, 354	11	10	i			13		1	
Richmond	1 18 943	3	1						i	1
Riverside	1 19.341	20	2				7		2	
Sacramento	65, 908 18, 721	6	4 2	····i		• • • • • •	'		3	4
San Diego	1 74.683	16	5	1	i		10		3	
San Francisco	1 506,676	139	32	3	2		8		13	1
Santa Ana Santa Barbara	15, 485 19, 441	4	3		• • • • • •	• • • • • •			¦	• • • • •
Santa Cruz	. 10,917	9	2	ii						]
Stockton	40, 296	8	5				1			
Colorado: Denver	256, 491	72	38	1	2		10	1	ļ	
Greeley	.1 10.958	4	30	·			18		j	1
Pueblo	43, 050 10, 906	8	8				1		1	
TrinidadConnecticut:	10,906		2		1			ļ		
Bridgeport	143 555	26	18	1	4		8	١,	-6	
Bristol	143, 555 20, 620	4	4		25	i	1	l		
Fairfield (town)	11, 475 22, 123 138, 036	0			12		1			
Greenwich (town)	138 036	42	27	4	8		2		3	•••••
Manchester (town)	18,370	6					l <del>.</del> .			
Meriden (city)	18,370 29,867 10,193	1		·			3			
New Haven.	162, 537	32	5		35	1	2		9	
New London	25, 688 91, 715	6								l
Waterbury District of Columbia:	91,715	21	5				13		1	
Washington	437, 571	132	19	ł	6		13	1	21	1
Florida:	1				"		1 .0			٠ ا
St. Petersburg	. 14, 237	26	. 3			ļ		.		
TampaGeorgia:	51,608	20			¦					1
Georgia: Albany	. 11,555 200,616			.			1	1		.l
AtlantaBrunswick	200,616	59	6	1			2		. 1	l
Macon	52,995	3						· ·····	2	
Rome	14, 413 52, 995 13, 252 83, 252		4 2			1				
SavannahIdaho:	. 83, 252	. 39	3	1	1		1		.	
Boise	21, 393	1 1	1		ł	į	1	ı		1
Pocatello	. 21,393 15,001	8			1		1			
Illinois: Alton	1	1	9	1	1	1		1	١ ـ	1
Aurora	. 24,682	12			i		6 2		1 2	ļ
Bloomington	36, 397 28, 725 12, 491 2, 701, 705	5	1			1	4		2	l
Centralia	. 12,491	4	1	···;;·		<u>-</u>		٠	·   · · <u>· · · · · · · · · · · · · · · ·</u>	ا
Chicago Heights	. 2,701,705	579 1	231	11	85	3	67	2	167	1
Cicero	. 44,995	9	5			1	2			
Decatur	. 43,818	15	3				ī			
East St. Louis Elgin	. 66,767	15	3				· · · · · :	•	. 1	
Evanston	. 27, 454 37, 234	12			2	1	1 2		1 5	1
** VGII3UUII										
Galesburg.  Jacksonville.	. 23, 834 . 15, 713	:   8	1				6			.

# CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TÜBERCÜLOSIS—Continued.

	Popula-	Total deaths	Dipht	heria.	Meas	sles.	Scar fev		Tub culo	
City. tion	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
llinois Continued.										
La Salle	13,050	3 7			2					<b></b>
Matioon	13, 552	10	3							• • • • •
Oak Park	39,858 12,0%6	10	3	j		• • • • • •	4			• •
Pekin	76, 121	15				• • • • • • •				• • • • • • •
PeoriaQuincy	35, 978	12					6			
Rockford	35, 978 65, 651	15	5		1		1			
Springfield	59, 183	25	- 11	. 1			!			
Indiana.			l	1		- 1		İ		
Anderson	29,767	7					1		1	<b>.</b>
Bloomington	11, 595 10, <b>962</b>	0	1							
ClintonCrawfordsville	10, 139	3 7	1	i						• • • • •
East Chicago	35, 967	12	i				·····i			• • • • •
Frankfort	11,585	4	9	i			1			
Gary	35, 967 11, 585 55, 378	13	4	·			i			
Hammond	36,004	6	4				3		1	
Huntington	14,000	4						1		
Indianapolis	314, 194 30, 067	115	87	3	2		10		1	. 1
Kokomo	39,067	3 7	3						!	· · · · ·
La Fayette	22, 486	3	1							
Logansport Mishawaka	21,626 15,195	ő	3		12				• • • • • • • •	
Muncie	15, 195 36, 524	l ŏ	5		12		6			
South Bend	70,983	14	1		31		4	i	•••••	
Terre Haute	66,083	27	4		i		2	1		
owa:			1	1			_	ı		,
Burlington	24,057	10	5				2	!		
Cedar Rapids	45, 566				.		2			
Clinton	24, 151	:	6		-   '					
Council Bluffs	36, 162 56, 727	11	21		-					
Davenport	100,727		16		-		2			
Des Moines	126, 468		. 10		- ;;-		19		• • • • •	
DubuqueIowa City	39, 141		.		. 14		····i			•
Marshalltown	11, 267 15, 731					1	i		• • • • • •	
Mason City	1 20.065	4	9				î	1		
Muscatine	16,068	6	4				1			
Sioux City	16,068 71,227	1	. 9				5			
Waterloo	36, 230	1	. 3				4			
Kansas:				ļ	1	1		1	l	ł
Atchisoh	12,639		. 2				2	j		
CoffeyvilleFort Scott	13,452 10,693	6	3 7				1 3		!	i
Kansas City	101, 177	1	7		3	1	7		3	
Lawrence	12, 456	2	2		-		i		l	1
Parsons	12, 456 16, 028	5		-1	1					!
Salina	15.085	1 7	1				. 1	1		
Topeka	50,022	21	12	1			. 5		2	1
Wichita	72, 217	40	15	4	l		. 4	1	·	i
Kentucky:	57.101	19	1 8	, [	1	1	1	1	1	1
Covington Lexington	57, 121	14					1 1		2	1
Louisville.	934 891	83			i i		2		1 8	1
Owensboro	41,534 234,891 17,124 21,735	1		.1	.		1		1	
Paducah	21,735			1	. 53				.]	
Louisiana:	i	1		1	1	1	1	1		1
New Orleans	. 387, 219	122	2   36	3   3	3 1		. 10		. 17	1
Maine:			_ [	i		ł	1 .		1	1
Auburn	. 16,985	1	2	<u> </u>						
Bangor Bath.	. 25,978		3	٠٠٠٠ ع	••					
Lewiston	. 14,731	i			i i	-			3	1
Portland.	14,731 31,791 69,272	3		3	. 4					.
Sanford (town)	10,691	1 °	ś							.
Marviand:	10,00	`   `	1	1		1		1	1	1
Baltimore	. 733, 826	203	3 54	9	2 79	·	. 30		. 26	İ
Cumperiand	29, 837	, i .	7				. 1			• • • • • •
Frederick	. 11,060	3	5				. 1		-	
Massachusetts:	1	1			1	1	1	1	1	1
Adams (town	. 12,967	( )	3				:	2	1	1
Amesbury (town)	. 10,036 18,66	) i	2   5				- 1	- 1	-1	

# CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Dipht	heria.	Mea	sles.	Scar fev	rlet er.	Tub culo	er- sis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deuths.
Massachusetts-Continued.					_				İ	
AttleboroBelmont (town)	19,731 10,749	8 7			5		1			•••••
Beverly	92 561	1	1		.1		3		1	· · · · · .
Boston	748,060	235	60	6	53 1	3	29 3		47	18
Braintree (town) Brookline	748,060 10,580 37,748	5	1 6	i i			2		1	• • • • • •
Cambridge	109,691	29	4		5		10		4	4
Chelsea	43, 184	13	1	i	19		3		2	•••••
ChicopeeClinton	36, 214 12, 979	4	····i							•••••
Danvers	11, 108	1			1		1			•••••
Dedham	10, 792	2 9	····· <sub>2</sub>		8		• • • • • •			•••••
EverettFall River	40, 120 120, 485	43	20	5	102	10	4	i	3	1
Fitchburg	41, 029	8	2						ì	2
Framingham	17, 033	4 7			¦			<u> </u>		• • • • • •
GardnerGreenfield	16, 971 15, 462	lí	1		····i		• <u>•</u>			•••••
Haverhill	53, 884	17	7		2		7			1
Holyoke	60, 203	20 21	1	1			2 4	ļ	1	1
Lawrence	94, 270 19, 744 112, 759	3	6 2	1	2		1		2	2
Leominster	112, 759	36	13 2		2		2	1	3	
Lynn	99,148	16	2	1	23		7		1	
Malden	49, 103	15 8	2 3				3			
Medford	39, 038 18, 204	2					7		2	
Methuen	15, 189	5			1					
New Bedford	121, 217	33	11	1	18		2		5	
Newburyport	15, 618 46, 054	7	1		8 2		7		····i	
Newton	22, 282	3	1				2			
Northampton	21, 951	9					1			
Peabody	19, 552 41, 763	8		-		·	6	.	1	••••
PittsfieldPlymouth	13, 045	3					l			<b></b>
Quincy	47, 876	10	2 2		i 2		3			ļ
Salem	42, 529	20				.		.		
Saugus Somerville	10, 874 93, 091	21	7		2	1	3		4	ļ
Southbridge	14, 245	6	1						.	l
Springfield	129, 614	36			. 2		8 2		5	
Taunton	37, 137 13, 025	13				·			i	ļ
Waltham	30, 915	7	5	1			10		.	
Watertown	21, 457	3	4	1		•   • • • • •	2		·	
Webster	13, 258 13, 443		i	i		1				
westneid	18,604	4							.	.
Winthrop	15, 455	3		-	-  1			-		·
Woburn	16, 574 179, 754	56			):::::		20		. 8	
Michigan:	1	1	1	1			1		1	1
Alpena	11, 101 19, 516	9	. 1	i	-	-	4		•	· ····
Ann ArborBattle Creek	36, 164	9	. 9	1			4	1		:
Benton Harbor	36, 164 12, 233 993, 678	3	2				. 1			;
Detroit	993, 678	198	75	8	8		85 16		. 24	1
FlintGrand Rapids	91, 599 137, 634 48, 615	29	33		· *		8			:
Hamtramck	48, 615	i	٠		.		.!			
Highland Park	. 46, 498	)   10	2	·	-	-	1 6	.	-	1
HollandIronwood	12, 183 15, 739					1	3 7			.
Jackson	. 48, 374	1 12	2 2		.					-
Kalamazoo	48, 487	7   21	1   12	2   1	ļ		6	٠	. 1	1
Marquette Muskegon	12, 718 36, 570		10	;  ····i	1	1				: ::::
Pontiac	. 34, 273	3 ! .	5 2	i			. 2	:	. 2	
Port Huron	. 25, 944	i   3		3			. 3		-	-
Saginaw	61, 903	3 2	3	· • - • • •	- 1		. 11			١.

# CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.  innesola: Duluth. Faribault Hibbing Minneapolis. Rochester. St. Cloud Virginia. Winona Ilssouri: Joplin. Kansas City Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Joseph Saint Jouis Springfield Jonatana: Anaconda Billings Great Falls. Missoula Lincoln Omaha Jovada: Reno. Jovada: Reno. Jovada: Reno. Jovada: Reno. Jovada: Wampshire:	98, 917 11, 1920. 98, 917 11, 089 15, 089 380, 582 13, 722 15, 133 14, 022 19, 143 29, 923 324, 410 77, 939 772, 897 739, 631 11, 668 15, 100 24, 121 12, 668 54, 948 191, 601	from all causes.  10 6 85 15 11 11 84 366 184 10 0 4 6 8	4 2 57 1 2 1 19 7 50	Deaths	Cases.	Deaths.	111 4 4 5 49 3 2 2 8 8 8	Deaths.	1 13 11 1	Deaths.
Duluth Faribault Hibbing Minneapolis Rochester St. Cloud Virginia Winona Ilssouri: Joplin Kansas City Saint Joseph Saint Louis Springfield ontana: Anaconda Billings Great Falls Missoula ebraska: Lincoln Omaha evada: Reno.	11, 089 15, 089 15, 089 380, 582 13, 722 15, 873 14, 022 19, 143 29, 902 324, 410 77, 939 772, 897 39, 631 11, 668 15, 100 24, 121 12, 668 54, 948 191, 601	85 15 11 84 36 184 10 0 4 6 8	2 57 1 2 1 1 19 7 50	1			4 5 49 3 2	2	13 1	
Faribault Hibbing Minneapolis Rochester St. Cloud Virginia Winnona Iissouri: Joplin Kansas City Saint Joseph Saint Joseph Saint Louis Springfield Iontana: Anaconda Billings Great Falls Missoula Lincoln Omaha Icvada: Reno. Icw Hampshire:	11, 089 15, 089 15, 089 380, 582 13, 722 15, 873 14, 022 19, 143 29, 902 324, 410 77, 939 772, 897 39, 631 11, 668 15, 100 24, 121 12, 668 54, 948 191, 601	85 15 11 84 36 184 10 0 4 6 8	2 57 1 2 1 1 19 7 50	1			4 5 49 3 2	2	13 1	
Hibbing Minneapolis Rochester St. Cloud Virginla Winona Ilissouri: Joplin Kansas City Saint Joseph Saint Louis Springfield ontana: Anaconda Billings Great Falls Missoula ebraska: Lincoln Omaha evada: Reno. ew Hampshire:	15,089 380,582 13,722 15,873 14,022 19,143 29,902 324,410 77,939 772,897 739,631 11,668 15,100 24,121 12,668 54,948 191.601	85 15 11 11 84 36 184 10 0 4 6 8	57 1 2  1 19 7 50	1	2		5 49 3 2	2	····i	
Rochester	13, 722 15, 873 14, 022 19, 143 29, 902 324, 410 77, 939 772, 897 39, 631 11, 668 15, 100 24, 121 12, 668 54, 948 191, 601	15 11 84 36 184 10 0 4 6	1 2 1 19 7 50	1	2		3 2	2	····i	
St. Cloud Virginla Winona lissouri: Joplin Kansas City Saint Joseph Saint Louis. Springfield. contana: Anaconda. Billings. Great Falls. Missoula. cleraska: Lincoln. Omaha. (evada: Reno lew Hampshire:	15, 873 14, 022 19, 143 29, 902 324, 410 77, 939 772, 897 39, 631 11, 668 15, 100 24, 121 12, 668 54, 948 191, 601	84 36 184 10 0 4 6	1 1 19 7 50		2		<u>2</u>			
Virginia. Winona. Iissouri: Joplin. Kansas City. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Saint Joseph. Solitalis. Anaconda. Billings. Great Falls. Missoula. Evraska: Lincoln. Omaha. Evada: Reno. Evada: Reno.	14, 022 19, 143 29, 902 324, 410 77, 939 772, 897 739, 631 11, 668 15, 100 24, 121 12, 668 54, 948 191, 601	84 36 184 10 0 4 6 8	1 19 7 50		2		<u>2</u>			
lissouri: Joplin Kansas City. Saint Joseph. Saint Joseph. Saint Joseph. Springfield. Iontana: Anaconda. Billings. Great Falls. Missoula. Evbraska: Lincoln. Omaha. Iovada: Reno. Icw Hampshire:	29, 902 324, 410 77, 939 772, 897 39, 631 11, 668 15, 100 24, 121 12, 668 54, 948 191, 601	84 36 184 10 0 4 6 8	1 19 7 50		2					
Joplin. Kansas City Saint Joseph Saint Joseph Saint Louis Springfield. Jontana: Anaconda Billings Great Falls Missoula: ebraska: Jincoln Omaha. evada: Reno.	324,410 77,939 772,897 39,631 11,668 15,100 24,121 12,668 54,948 191,601	36 184 10 0 4 6 8	19 7 50		2		<u>8</u>			
Kānsas City Saint Joseph Saint Louis Springfield ontana: Anaconda Billings Great Falls. Missoula ebraska: Lincoln Omaha (evada: Reno.	324,410 77,939 772,897 39,631 11,668 15,100 24,121 12,668 54,948 191,601	36 184 10 0 4 6 8	19 7 50		2		8			1
Saint Joseph Saint Louis Springfield Ontana: Anaconda Billings Great Falls Missoula: ebraska: Lincoln O'maha cevada: Reno. ew Hampshire:	77, 939 772, 897 39, 631 11, 668 15, 100 24, 121 12, 668 54, 948 191, 601	184 10 0 4 6 8	7 50 						4	
Springfield (ontana:	39,631 11,668 15,100 24,121 12,668 54,948 191,601	10 0 4 6 8	·····i	2			5			
iontana: Anaconda. Billings. Great Falls. Missoula. iebraska: Lincoln. Omaha. ievada: Reno. iew Hampshire:	11,668 15,100 24,121 12,668 54,948 191,601	0 4 6 8			1		31		23	ĺ
Anaconda Billings Great Falls. Missoula chraska: Lincoln Omaha cvada: Reno. ew Hampshire:	15,100 24,121 12,668 54,948 191,601	4 6 8					•••••		• • • • • •	
Billings Great Falls. Missoula cloraska: Lincoln. Omaha. cvada: Reno. ew Hampshire:	15,100 24,121 12,668 54,948 191,601	6 8								
Missoula. ebraska: Lincoln. Omaha. evada: Reno. ew Hampshire:	12,668 54,948 191.601	8					5		2	
ebraska: Lincoln Omaha evada: Reno [ew Hampshire:	54,948 191.601		1				1			
LincolnOmahaevada: Renoew Hampshire:	191.601					• • • • • •				
evada: Reno ew Hampshire:		11	1					1	3	l
Reno ew Hampshire:	1	42	19		1		5			
lew Hampshire:	12,016	4						l	l	İ
		*					• • • • • • • • • • • • • • • • • • • •			
Concord	22, 167	7	1		l			١	l	J
Dover	13,029 11,210	5	;-		¦				<u>.</u> .	
Keene	11,210	4	1				• • • • • •		1	
ew Jersey: Asbury Park	12,400	1	1	1	١			l		l
Bayonne	76 754		4				2		1	
Bloomfield	22,019	3 4	4	·····	2		•••••			
East Orange	26, 470 50, 710	10	*		19		í			
Englewood	11,627	3								ļ
Garfield	19,381	6	3			¦	····· <u>·</u>			1
Hackensack Harrison	17,667 15,721	7	4			¦	2			
Hoboken	68, 166	19	4	1			i		4	1
Jersey City	298, 103		. 17			!	6		6	ļ
Kearny. Montclair.	26,724 28,810	47	4		¦	¦	2			
Morristown	1 12,548	8			14	<u> </u>	2			
Newark	414,524 33,268	97	19	2	52	1	13 2		13	
Orange. Passaic.	33,268	14	· · · · · · ·	·¦•••••	33	····i	5		1	1
Paterson .	63,841 135,875	5	2 7		33	1	3		i	
Perth Amboy	135,875 41,707 16,923 27,700	13	5	2			3		l	
Phillinghurg	16,923	5				¦		.		
Plainfield	27,700	5 3			·				3	
Trenton	10,174 119,289	36	48	2		1	9	1	2	1
Union (town)	. 20,651				. 1		1			
west Hoboken	40,074	6			•¦•••••		2	.	i	• • • • •
West New York	29, 926 15, 573	7			24	• • • • • •	2		1	
New Mexico:	1	i				i				1
Albuquerque	. 15, 157	9	6	1	1				. 3	1
New York: Albany	112 244		2		1	1	1	1	1 4	1
Auburn	. 113,344 . 36,192	12					1		1	
Buffalo	. 506,775	133	13	1	26	1	24	1	24	1
Cohoes	22,987	5			•¦• • • • •	.,	3	•		• • • • •
Elmira Geneva	. 506,775 22,987 45,393 14,648	4	.! 1	j	-	• • • • • •	3	1	1	
Glens Falls							i	1		
Hornell	15,025 11,745	1 5						-:		- •
Hudson	. 11,745	4					1			• • • • • •
Ithaca Jamestown	. 17,004 38,917	12	ii	• . • • • •			.;	-1	-1 :	
Lackawanna Little Falls	17,918				. 1		3		. 3	

# CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Dipht	heria.	Meas	sles.	Scar fev	rlet er.	Tul culo	
City. tion Jan. 1, 1920.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
ew York-Continued.										
Lockport	21,308	5			• • • • • •		1 2		• • • • • • •	• • • • • •
New York	18,420 5,620,048	1,242	208	16	40	· · · i	120	2	1 243	1 90
NewburghNiagara Falls	30,366 50,760	7					2 5			•••••
North Tonawanda	50,760 15,482	21 4	1	1	• • • • • • •		12		8	1 2
Ogdensburg	14,609	5								• • • • • •
Olean Peekskill	20,506 15,868	6	2				3			
Plattsburg	10, 909	õ								
Port Chester	16,573	5	2						3	••••
Poughkeepsie	35,000 295,750	13 66	2 13	3	74		2 5		18	
Rome	26,341	10					-13			
Saratoga Springs Schenectady	13, 181 88, 723	4	5	····· <sub>2</sub> ·	····i	• • • • •	23		3	
Syracuse	171 717	18 41	25	-	2		4			
Troy	72,013	1 30	4	i			2		3	
Watertown	72,013 31,285 16,073	7			1		3			
White Plains	21,031	5								
Yonkers	100, 176	18	4		2		3			
orth Carolina: Charlotte	46,338	6	1		İ		ł	1	1	
Durham	21,719	1 4			1		i		î	
Greensboro	21,719 15,861	5					····			
Raleigh	24,418 12,742	5	6				4			
Salisbury	13.884	5				]				1
Wilmington	33,372 48,395	5 5 16 23	8	i			1 3		5	
Winston-Salemorth Dakota:	48,395	23	8	2			3		. 3	ļ
Fargo	21, 961 14, 010	0	l		1	ļ				ļ
Grand Forks	14,010				1			.		
hio: A <b>kron</b>	208, 435	37	8		2		10		1	J
Alliance	21,603	3 2	3				5			
AshtabulaBarberton	208, 435 21, 603 22, 082 18, 811 13, 104	2	2	·			2			·   ·
Cambridge	13,104	3	1		1			.		
Canton	87,091 401,247 796,841	16	7		7		7		1 9	1
Cincinnati	401,247	119 144	25 79	9	18		12 124		21	1
Columbus			14		7		9	1	8	1
Dayton	152,559 27,292 11,237	57 38	13			.	13 2			
East Cleveland East Youngstown	11,237	2	1				4			
Findlay	17,021	1								.
Fremont	12,468	2 6	2	·	3					· ····
Kenmore	39,675 12,683								2	·
Lima	41.326	1 7	4	1			. 4		.	.
Lorain	37,295 27,824	1	9 7		-		. 6		2	-
Martins Ferry	11,634	. 1	1		i		3		:  <b>.</b> -	.
Middletown	23,594	. 6		.]	.	-	. 1		-	-
New Philadelphia Newark	10,718 26,718	9	$\begin{bmatrix} 1\\3 \end{bmatrix}$		-	-	.  3			
Niles	.i 13.080	) 0	2	1	.					
Norwood	24,960	i 1	1		-	-	•	-		
PiquaSalem	15,044 10,305	3	3				5			
Sandusky Springfield	. 22.897	1 7	2	1	.	.	. 5			
Springfield	60.840	11 17	2	·	. 1		2		-	1
Tiffin	28,506 14,375	9	ii	1	1	1	:  <b>:</b>			
Toledo	243, 16	55	31	2	161	1	14		1	1
YoungstownZanesville	243, 164 132, 358 29, 566	3 28	38		70			1	i	1
klahoma:	1	t	i	1	. 10		1	1	1 1	1 .
	. 91,29	5 22	:   2				_   9			

<sup>1</sup> Pulmonary tuberculosis only.

# CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula- Total Diphtheria		heria.	Measles.			rlet er.	Tu cul	ber- osis.	
City.	tion Jan. from 1, 1920. all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
Oregon: Portland	258, 288	80	3		1		6		2	3
Pennsylvania:		-	1		_		•		_	,
Allentown	73,502 60,331 12,730 12,181		<u>.</u>		····i					
Ambridge	12,730		4		12		2		ı	
BerwickBethlehem	50,358		1 2		1	• • • • • •	2		····· <sub>2</sub> ·	· · · · · · ·
Braddock	20.879				6					
Bristol	10,273 23,778		4							
Butler	10,632		····i		2		1		3	
Carbondale	18,640		2							
Carnegie	11,516 10,504		1		,1					
Carrick	13, 171		2		15		4			•••••
Charleroi	11,516		i				2			
ChesterCoatesville	58,030 14,515	·····			5 14				5	
Dickson	11,049				14				9	· · · · · •
Donora	14, 131		2							
Duquesne	19,011 33,813		1		6					
Easton	93, 372		····i		1	• • • • • •	2		2	
Harrisburg	75,917		ļ		1		10			
Hazleton Homestead	32,277 20,452		3		3		2			<b> </b>
Jeannette	10,627		····i		3		····i			
Johnstown	67,327		1				l			
LancasterLebanon	53, 150 24, 643				1		2			
McKees Rocks	16, 713		2				2			
McKeesport	46,781		1							
Mahanoy City	15,599 18,179		1 3							• • • • •
Mount Carmel	17.469		1 1				i			
New Castle	44,938		2				1			
Norristown	32,319 14,928		1		30 29			ļ·····		
Oil City	21,274 10,236 1,823,779 10,484		ļ <b>.</b>				2			
Olyphant	10,236		1		la-aa:-		52	2	34	! <u></u>
Philadelphia Phoenixville	1,823,779	518	100	6	2,964	26	- 52	2	34	34
Pittsburgh	388.343		10		22		12		3	
Pottsville	21.876		1				····i			
Punxsutawney	10,311 107,784		1		····i·	•••••			i	
Scranton	137,783 24,726		4		6		3		4	
Shenandoah	24,726		4			•••••				
Steelton Swissvale	13,428 10,908		1				3			<b>.</b>
Tamaqua	12.363		1		1					
Uniontown	15,692		1				2		2	
Washington West Chester	21,480 11,717				i				l	
Williamsport	36 198		i							
Woodlawn York	12, 495 47, 512		····i		10		·····i•		1	
Rhode Island:			1 -					1		
Cranston	29, 407	6			12				•	; <b>-</b>
Newport	29, 407 30, 255 64, 248	11 32			8	3				•
Providence	237, 595	54	29		38		6		ļ	2
South Carolina:	· '	1					2	1		2
Charleston	67, 957 37, 524	28	2	1						ļ <b>.</b>
Greenville	23, 127	6	1			ļ	2		ļ	
South Dakota:		1					4	1	1	1
Sioux Falls Tennessee:	25, 202	7	8		ļ	ļ	'			
Chattanooga	57, 895 77, 818 162, 351 118, 342	1	19	1			5 3 5			t
	77 010		. 3	1	1	1	. 3	1		
Knoxville. Memphis.	169 251	71	14	1	1		5		8	2

# CITY REPORTS FOR WEEK ENDED DECEMBER 2, 1922—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Dipht	heria.	Mea	sles.	Scar fev		Tul culo	
City. tion.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Texas:										
Amarillo	15, 494		1			¦	2		• • • • • •	
Beaumont	40, 422	6	2							
Corpus Christi	10,522	3 42	10				4		•••••	
Dallas	158,976 77,560	28	10		17		7		1 3	
El PasoFort Worth	106,482	22	8				i		3	
Galveston	41 255	1 7	ï				-			
Houston	138 276	29	25				2			İ
Waco	44, 255 138, 276 38, 500	$\frac{1}{21}$								••••
Utah:	,		1		i	1		İ		
Salt Lake City	118, 110	34	6	1	1	'	1			1
Vermont:	,	i		1		1				i
Rutland	14,954	4		!	' <b></b>					
Virginia:		l .		!		İ		İ	!	l
Alexandria	18,060	4								1
Danville	21,539	8	2			¦	1			
Lynchburg	30,070	7	4		:		2 3			
Norfolk	115,777	7	7		1 1		î		6 2	
Petersburg	31,012		3				١ .		-	
Portsmouth	54,387 171,667	15 67	18		4	i	15		8	l
Richmond	50,842	18	4	2	i		1.3			l
Washington:	30,012	10	1 *	-	1 *		_	1		
Seattle	315, 312	1	1	1	!		12		11	1
Spokane	104, 437	1	12		3	1	iī			
Tacoma	96, 965	1	4	1	i		14			1
Yakima	18, 539		. 2		1		1	1		
West Virginia:	1	1	1	1	!		l	1	į.	i
Bluefield	15, 282	8	3			.	1			1
Charleston	39,608	11	6		1		2			ł
Clarksburg	27,869 17,851	5	4		2		2		1	
Fairmont	17,851		. 3			·}	1			
Huntington	50, 177	18	5	1			3			
Morgantown	12, 127	3	1 2	1			2		1	
Moundsville	10,669 20,050	6	1				6			
Parkersburg	56, 208	17	3		38		4	1	2	1
Wheeling Wisconsin:	0.0,200	1			1 00	1	1 -	1	1 -	
Appleton	19, 561	1	. 9	1		.)	1	1		
Beloit	21,284	1	4	1		1	12	2	2	i
Eau Claire	20,906		. 1	1		.		. '		
Fond du Lac	23,427	8	1	.!				-!	. 1	1
Green Bay	31,017	1	. 6	·	.		. 1		.	
Janesville	18, 293	0		<b></b> .	.		· · · · · · · ·	- !	·}	-
Kenosha	40,472	5	2		. 2		. 1			
La Crosse	30, 421 38, 378		•¦••• <u>•</u>		. 11		. 5		. 2	1
Madison	38,378		5			• ••••				
Manitowoc	17, 563 13, 610		- 1	i		-	1 5		i	. [
Marinette Milwaukee		1	. 41	-1	490	1	49	1	5	1
Oshkosh		17			100	J	1		2	1
Racine		1 4			4	1	. 3	1		. ```
Sheboygan	30,955	ļ <sup>2</sup>	. 12		î	1	ĭ		10	1
Superior	39,671					.!	.1			.1
Wausau	18,661	1	. 1			.!			.	-
West Allis	13,745		. 1		. 16		. 1	1		
Wyoming:		1	1	1	1	Ì		i	1	1
Cheyenne	. 13, 829	9	11	.1		.'	.1			

### FOREIGN AND INSULAR.

### AUSTRALIA.

### Plague-Infected Rodents-Brisbane.

During the week ended November 4, 1922, two plague-infected rodents were reported found at Brisbane, Australia.

### AZORES.

### Plague - Horta.

A fatal case of plague was reported at Horta, Island of Fayal, Azores, November 9, 1922. The case was stated to be an isolated one.

#### CUBA.

### Communicable Diseases.

Communicable diseases have been notified in Cuba as follows:

#### Habana.

	Nov. 21-	Remain-	
Disease.	New cases.	Deaths.	under treat- ment Nov. 30, 1922.
Plague	4 3	i	<sup>1</sup> 1 3 3 10
Malaria Paratyphoid fever	ï	3	289 11
Scarlet fever	21	7	120

<sup>1</sup> From abroad, 1.

#### Provinces.

	New cases reported Oct. 21-31, 1922.									
Province.	Chicken pox.	Diph- theria.	Malaria.	Para- typhoid fever.	Scarlet fever.	Typhoid fever.				
Camaguey			20 39	2 10						
Habana Matanzas Oriente	3 2	1 3	39 4 116			38				
Pinar del Rio Santa Clara	3	3 2	1 2	11	<u> </u>	24				
Total	9	18	182	23	5	166				

<sup>&</sup>lt;sup>2</sup> From the interior, 32; from abroad, 2.

From the interior, 30.

#### ECUADOR.

### Plague-Infected Rats-Guayaquil.

During the period November 1-15, 1922, out of 4,450 rats examined 39 rats were found plague-infected.

#### GREECE.

### Typhus Fever-Athens.

Two fatal cases of typhus fever were reported at Athens, Greece, during the period October 25-November 3, 1922.

#### JAMAICA.

#### "Alastrim."

During the two weeks ended November 25, 1922, 104 new cases of "alastrim" were reported in the island of Jamaica.

### Typhoid Fever-Kingston and Vicinity.

During the same period nine cases of typhoid fever were reported in Kingston and 38 cases in the surrounding country.

#### MEXICO.

#### Further Relative to Yellow Fever-Ciudad Victoria.1

The fatal case of yellow fever reported from Ciudad Victoria, Mexico, November 30, 1922, is stated to have occurred in an officer of the Mexican Army who left Victoria November 18, 1922, for Mexico City and was taken ill two days out from Mexico City on his way to Monterey, or five days from Victoria. The patient was taken ill on the train and died at Monterey, November 25, 1922.

### Measures Against Mosquitoes - Frontera.

According to information dated November 15, 1922, measures for the destruction of mosquitoes have been instituted at Frontera, State of Tabasco, Mexico, under authority of the special commission for yellow fever control of the Mexican Federal Department of Public Health. The 1,380 houses in the town were inspected. The first inspection, October 11 to 23, 1922, disclosed 3,202 breeding places of mosquitoes. These breeding places were treated by means of oil, fish, and covers for containers. The latest inspection, November 11, 1922, showed 1,670 breeding places.

#### POLAND.

### Scarlet Fever-Warsaw City.

During the period July 30-October 21, 1922, 356 cases of scarlet fever with 60 deaths were notified in the city of Warsaw, Poland.

#### RUSSIA.

### Communicable Diseases-Lettonia-September, 1922.

During the month of September, 1922, communicable diseases were reported in the province of Lettonia, Russia, as follows:

September, 1922.

Disease.	New cases.	Remarks.
Diphtheria.  Measles Scarlet fever Smallpox Typhoid fever Typhois fever Typhus fever Typhus fever, recurrent Whooping cough	60 10 60 4 105 19 4	Paratyphus fever; cases 5.

### Anthrax - Dysentery - Leprosy - Malaria.

During the same period, one case of anthrax, 246 cases of dysentery, one case of leprosy, and five cases of malaria were reported in Lettonia.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER. Reports Received During Week Ended December 22, 1922.

The reports contained in the following tables must not be considered as complete or final, either as regards the list of countries included or the figures for the particular countries for which reports are given.

#### CHOLERA.

Diana

Cores | Deaths

Place.	Date.	Cases.	Deaths.	Remarks.
IndiaBombayCalcuttaMadras	1 Oct. 29-Nov. 4	1 9	1 4 1	Sept. 10-23, 1922: Cases, 2,436; deaths, 1,496.
	PLA	GUE.		
Australia:				
Queensland—				0.3
Brisbane Ceylon:	Oct. 29-Nov. 4			2-plague infected rats.
Colombo	Oct. 22-28	6	5	1 plague rodent.
CI. t	1	i		1.0
Unina: Hongkong	Oct. 15-Nov. 4	5	5	
Ecuador: Guayaquil	Nov. 1.15	l		Rats examined, 4,450; found
* -	į.	1		plague-infected, 39.
Egypt		ļ	ļ	plague-infected, 39. Jan. 1-Nov. 16, 1922: Cases, 473
City— Suez		3		deaths, 220.
Province—	Nov. 10-15	1 3	1	l
Minieh	Nov. 10-14	3		
India:		į.		
Bombay	Oct. 29-Nov. 4	12	9	
Karachi.	. do	1 158	104	
Madras Presidency Rangoon	Oct. 15-21	6	7	•
Madagascar:	1 000.10 21	1		
Tananarive				Oct. 9-22, 1922: Cases, 4: deaths, 4
Amboninampa mari-	Oct. 9-15	. 1	1	į.
n <b>ana.</b> Fenoariyo	Oct. 16-22	4	3	
Turkey:	1	1	1	
Constantinople	Oct. 22-28	. 2		i

<sup>&</sup>lt;sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.

## Reports Received During Week Ended December 22, 1922—Continued. SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Arabia:	-			
Aden	Nov. 5-11	1	<b></b>	
anada:		_		
Manitoba-			1	
Winnipeg	Nov. 26-Dec. 2	7		
Ontario—	•			
Niagara Falls	Nov. 2-Dec. 2 Nov. 26-Dec. 2	6		
Toronto	Nov. 26-Dec. 2	1		
China:	0-4 00 00			Bassant
AmoyChungking	Oct. 22-28			Present. Do.
Foochow	do			Do.
Nanking	Oct. 22-Nov. 4			Do.
Shanghai.	Nov. 6-12	i		Foreign.
Tsingtau	Oct. 23-29	î	1	Including leased territory of Kia-
		l		chow.
Cuba:		1 .		
Santiago de Cuba	Nov. 1-30	1		
Ecuador:	37 1 15	١		
Guayaquil	Nov. 1-15	7		
Germany:	Name 10 10		2	
Dresden	Nov. 12-18		2	Sept. 10-23, 1922: Cases, 1,579
India	Oct. 8-21	7	4	deaths, 375
Bombay Calcutta	Oct. 29-Nov. 4	2	. *	deaths, or
Karachi.	do	ĺ		
Madras	do	22	7	
Rangoon	Oct. 15-21	5	l i	
ava:	Oct. 19-21	1	1 *	
East Java—		l	1	
Soerabaya	Oct. 8-14	2	1	ŧ
West Java—		i -		
Batavia	Oct. 28-Nov. 3	2	1	Province.
Mexico:		1	ł	· ·
Chihuahua	Nov. 6-Dec. 2	l	. 5	İ
Nogales	Nov. 27-Dec. 2		. 2	
San Luis Potosi	Nov. 5-11		. 1	
Russia:		Į.	i	
Lettonia (Province)	Sept. 1-30	. 4		
Spain:		1	1 .	
Corunna	Nov. 5-11	·	27	1
Seville	Nov. 6-19 Nov. 12-18	3		
Valencia	NOV. 12-18	.] •		·I
Berne	Nov. 5-11	. 9	i	
Turkey:	NOV. 3-11	-  "	1	·}
Constantinople	Oct. 22-28	. 15	5	
<u> </u>		1	<u>.l</u>	1
	TYPHUS	3 FEVE	ER.	
China:				
Antung	Oct. 30-Nov. 12	.] 2		
Egypt:		1	1	
Alexandria	Nov. 5-11	. 1		
Cairo	Sept. 10-30	. 11	. 9	
Greece:		1 -		
Athens	Oct. 25-Nov. 3	. 2	2	
Russia:	Sept 1 22	100	. 1	Pagurrant tunbus: Coses 4
Lettonia (Province)	Sept. 1-30	. 19	'	Recurrent typhus: Cases, 4.
Spain: Barcelona	Nov. 9-22		. 2	
	YELLO	w fev	ER.	
Property of the Control of the Contr	·	T	1	
Mexico: Monterey	Nov. 25		. 1	In person arrived ill from Ciude
•		1	1	Victoria, via Mexico City.
	i	1	1	

## Reports Received from July 1 to December 15, 1922.1 CHOLERA.

Antung S  Manchuria— S  Dairen S  Newchwang J  Pootung J  Shanghai J  Tientsin J	May 14-June 24 Sept. 21-Oct 1 Sept. 18-24 July 27 Aug. 3 June 25-July 31 July 25-Aug. 191 Aug. 3 June 29 June 27-17	3 3 198 4	2	Prevalent in Chinese city and in settlements along Yalu River. Oct. 9-15, 1922: Present in Chinese city.  Present. Stated to have been imported from Shanghai.  Present.  Aug. 1-Oct. 8, 1922: Cases, 6, foreign; deaths, 56, Chinese. July 29, 1922: Stated to be 250
Manchuria— Dairen S Newchwang J Pootung Shanghai J Tientsin J	Sept. 21-Oct 1  Sept. 18-24  July 27  Aug. 3  June 25-July 31  July 25-Aug. 191  Aug. 3  Aug. 3  June 29	3		Present. Stated to have been imported from Shanghai.
Manchuria— Dairen 8 Newchwang J Pootung Shanghai J Tientsin J  Woosung A	Sept. 18-24	198		Present. Stated to have been imported from Shanghai.
Dairen 8 Newchwang J Pootung Shanghai J Tientsin J  Woosung A	July 27	198		Present. Stated to have been imported from Shanghai.
Dairen 8 Newchwang J Pootung Shanghai J Tientsin J  Woosung A	July 27	198		Present. Stated to have been imported from Shanghai.
Newchwang. J Pootung J Shanghai J Tientsin J Woosung. A	Aug. 3		2	Present. Stated to have been imported from Shanghai.
Pootung J Shanghai J Tientsin J  Woosung J	June 25–July 31 July 25–Aug. 191		2	imported from Shanghai.
Shanghai. J Tientsin J  Woosung. A	June 25–July 31 July 25–Aug. 191		2	Present.
Woosung	Aug. 3		2	Aug. 1-Oct. 8, 1922: Cases, 6, foreign; deaths, 56, Chinese.
Woosung	Aug. 3		2	loreign; deaths, 56, Chinese.
Image:	June 29			pital.
Greece:	June 29			About 75 deaths reported for previous week.
	June 29			• • • • • • • • • • • • • • • • • • • •
Athens		1	1	i
		30	11	At quarantine station: Among passer ers from vessel carrying Russian refugees. Feb. 26-June 24, 1922. Deaths, 33,079. June 2-Aug. 5, 1922. Deaths, 9,346. Aug. 6-Sept. 9, 1922. Cest. 9, 1923. Cest. 1924.
Bombay	Apr. 23-June 17	12	5	33 C70 Ima 2 Ang 5 1000
Do J	Apr. 23-June 17 July 2-Oct. 9 Apr. 23-June 24 June 25-Oct. 28 May 21-June 17	6	5	Deaths, 9.346. Aug. 6-Sept 9.
Calcutta	Apr. 23-June 24	536	378	1522. Cases, 9,455; upaling, 5,934.
Do	June 25-Oct. 28	108	92	(Report for week ended Feb. 25, 1922, not received.)
		3	1	25, 1922, not received.)
Rangoon	July 16-Oct. 28 May 7-June 24	8 116	3	· · · · · · · · · · · · · · · · · · ·
Do	June 25 Sept. 30	99	65 <b>64</b>	1
Indo-China:	ranc 20 cept. ou	99	03	
Saigon	June 25-Aug. 19	30	28	Including area of 100 square km.
Japan: Tokyo	Oct. 4			Epidemic.
Philippine Islands:	Oct. 5			Present.
Manila	May 21-June 24	8		
D0 J	June 25-Sept. 2	14	3	1 case, 1 death in nonresident.
Province—	T 4 40			Aug. 27-Sept. 2, 1922.
Bataan	June 4-10	1 15		•
Do	May 26–June 24 June 25–July 22 Apr. 30–May 6	7	11 4	•
Bulacan	Apr. 30-May 6	l i	î	
Cagayan	Aug. 13–19. Mar. 25–Apr. 1	- 2 1	2	
Camarines Sur 1	Mar. 25-Apr. 1		1	
Laurina ( /	ANT 16_'22	1		
Marinduque J	June 25-July 15	6	. 6	
Mindoro	June 25-July 15 Apr. 23-29 June 11-17	1		
Nueva Ecija Pampanga	Ann 16 Tune 04	1 6	1 5	
Do	Apr. 16-June 24 June 25-July 8	1 1	i	1
rangasinan	lime 18_94	1 3	î	į
	Aug. 27-Sept. 2	1 3 2 3		
NIZAI	ADr. 2-June 24	3	1	
Tariac	May 21-June 10	4	4	
Union	Aug. 6-Sept. 9	3	2	
Poland	• • • • • • • • • • • • • • • • • • • •	[		July 9-Sept. 7, 1922: Cases, 101; deaths, 28.
Rovno	June 11-24	8	3	Repatriation station: Cases oc-
Do. 1 1	June 25-Ang 5	33	10	curring among persons rene-
Volhynia. Zamose	June 25-Aug. 5 July 2-8	l ~i	ĭ	curring among persons repa- triated from Russia.
2411080	Aug. 21	l <del>.</del> .	1	
tumania:	_	1	1	
Bucharest	do	1		<b>-</b>
	•••••			To July 31, 1922: Cases, 11: deaths, 6. First case in soldier
Province—		!	i	irom ironiter on Dutestet
Bessarabia—	T1 04		1	River. Crangasi, a suburb of
Cobusea. Codaeshti.	July 24	1		Bucharest.
Orhei	•••••	3		Reported Aug. 11. Prefecture. Cholera reported
VIIICI	•••••			Aug. 11 among troops in garri-
Page			1 -	SOD.
Rascautzi	• • • • • • • • • • • • • • • • • • • •	.! 11	1	Reported July 29.

<sup>&</sup>lt;sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.

## Reports Received from July 1 to December 15, 1922—Continued. CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Siam:	Apr. 30-June 17	15	9	÷
Bangkok Do Straits Settlements:	July 2-Oct. 7	. 14	6	
Singapore	July 16-22	1	1	
Aleppo	May 27-June 3 June 25-Sept. 2			A few cases in interior. Present in interior.
On vessels: S. S. Chios	July 16	1		At Kavak Quarantine Station, Bosporus, from Novorossysk, a Russian Black Sea port. Case occurred in a recognized car- rier. Vessel carried refuges for Saloniki, Greece. Six bodies buried at sea, 12 cases landed at Kavak during stay. At Dairen. Manchuria Chine.
<u> </u>	Sept. 18-24	2	1	bodies buried at sea; 12 cases landed at Kavak during stay. At Dairen, Manchuria, China. Name and origin of vessel not stated.
	PLA	GUE.		
Algeria:				
Algiers	Aug. 27	10	3	
Smyrna Do	May 28-June 17 June 30-Aug. 26	3 8	1 1	District.
Australia: New South Wales— Sydney	June 1-15	2		Apr. 2-June 10, 1922: 19 plague- infected rats found.
Queensland— Brisbane	July 23-29			One plague rat.
Azores: Fayal Islands Horta	Feb. 2-8		2	Jan. 16-Feb. 8, 1922: Cases, 6; deaths, 4. Nov. 9, 1922: 1 case,
DoSt. Michaels Island	Nov. 9 Sept. 9-Oct. 14	202	26	1 death.  Jan. 1-May 13, 1922: Cases, 8; deaths, 55. June 25-Nov. II, 1922: Cases, 353: deaths, 64. In localities 3-9 miles from Ponta Delgada.
Ponta Delgada	1	i	1	In vicinity, 180 cases.
Bahia	June 11-17	1 7	3	May 7-June 4, 1922: Rodent; oc- curring in one section of the city. Many dead rats found.
Porto Alegre	July 30-Sept. 30	ì		
Kenya Colony Kisumu. Nairobi	. Feb. 1-28	. 15	15	Mar. 1-June 30, 1922: Cases, 371; deaths, 344. July 9-15, 1922: Deaths, 14.
Tanganyika Territory Uganda	Sept. 17-30	2	1	July-August, 1922: Cases, 185, deaths, 186.
Cape Verde Islands: St. Vincent	. Sept. 4			Present.
Ceylon: Colombo Do	. May 6-June 24 June 25-Oct. 14	. 13		Plague rats, 5. Plague rats, 12.
China: Amoy	May 7-June 24 June 25-July 15		. 87	May 20, 1922: From 10 to 2 deaths reported daily. Jul 16-Aug. 12, 1922: Present
Do	1	. 20		16-Aug. 12, 1922: Present stated to be decreasing. Present.
ChungkingFoochow.	Sept. 1-30 Sept. 24-30 May 7-June 10		5 4	Do. June 17-24, 1922: Present. Jun
Do	July 2-Aug. 12 June 4-24	176		cases in foreign physician
NankingCuba:	Sept. 24-Oct. 7			Present.
Habana	Nov. 11-20		ı	.1

### Reports Received from July 1 to December 15, 1922—Continued.

PLAGUE-Continued.

PLAGUE—Continued.									
Place.	Date.	Cases.	Deaths.	Remarks.					
Ecuador: Guayaquil	June 1-15			Rats found infected, 16; exam-					
Do		1	1	Rats examined, 25,725; found in-					
Egypt	Tuno 1 98			Jan. 1-June 29, 1922: Cases. 280: deaths, 120. Jan. 1-Nov. 9, 1922: Cases, 467; deaths, 219. Nov. 2-8, 1922: One case, one death; sentiempic					
Alexandria Do	July 2-Nov. 8	19	6 8	Nov. 2-8, 1922: One case, one death; septicemic.					
Port Said Do Suez	June 12-25 July 2-Nov. 8 May 24-June 25 July 10-Oct. 27	2 32 7	5 22 6	Septicemic, 1. Foreign cases, 2; deaths, 2.					
Do		7 7	4	Aug. 5, 1922: One case imported from Mauritius on S. S. Dum-					
Province— Assiout Do	May 30-June 23 July 11-Nov. 8	14 11	8	bea. Septicemic, 1.					
DoBenisouefDoFayoum	May 26-June 30 July 2-Sept. 2 June 3-29	19 29 8	7 13 4						
Do	July 2-20 May 26-June 30	13 37 3	3 13						
Do Menoufieh Minieh	June 2–29	1 24	17						
Sinnuris (district) France:	Sept. 3-9	24 1	12						
Paris Greece: Patras	Aug. 11-18	4	3	•					
Piræus	Aug. 1-31 June 30-July 4	3	1	At Wales Warris 1 . G					
Do	· .	_	1	At Kalopa Homesteads. Case, Hawaiian. Hamakua Mill Co. One plague					
Honokaa		•••••	4	rat trapped: found positive, July 14, 1922. Oct. 9-Nov.10, 1922: 3 plague rats. Japanese and Filipinos: bubonic and septicemic. Oct. 5, 1922: One case, one death. Reported positive Oct. 12. At Honokaa Mill, occuring in family of fatal case reported Aug. 24, 1922. Aug. 12-Sept. 13, 1922:					
Honokaa Mill Kalopa	July 13	1 1	1 1	3 plague rats found. Japanese. Pneumonic. Contact with case at Kalopa Homesteads, July 4.					
Paauhau				One plague rat trapped at Pasuhau Gulch. June 29; found positive June 30, 1922.					
Paauilo	July 7	•••••	1	At Pohakea: Japanese. Sept. 25, 1922: One plague rat found at Hamakua Mill.					
Pohakea	Aug. 1-16	2	2	Aug. 1, 1922, Japanese child; case reported positive for plague Aug. 6, 1922. Form, pneumonic. Aug. 16, 1 fatal case in Japanese.					
PohakuhakuIndia		1	1						
				July 19.  Apr. 23–June 24, 1922: Cases, 6,310; deaths, 4,812. June 25–Sept. 16, 1922: Cases, 9,329; deaths, 6,551 Surroughing country. July 2-8					
Bombay. Do. Calcutta. Do. Karachi Do. Madras Presidency.	June 25 Cent 20	168 84 56 17 59 6 74	123 64 54 16 55 5	Surrounding country, July 2-8, 1922; Cases, 21; deaths, 16.					
Do Rangoon Do Indo-China:	May 21-June 24 June 25-Oct. 28 May 6-June 24 June 25-Oct. 14	2, 506 175 471	1, 669 161 420						
SaigonDo	Apr. 23-June 24 June 25-Aug. 19	30 10	21 7	Including area of \$00 square kilometers.					

### Reports Received from July 1 to December 15, 1922-Continued.

### PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy: Catania Naples	June 17 July 18-Sept. 28	1 19		Occuring in suburbs, viz., at Torre Annunziata, July 18- Sept. 28, 1922, 18 cases; San Giovanni a Teduccio, July 25, 1922 1 case
Japan: Osaka	July 11-20	7	6	1922, 1 case.  Reported as having occurred during past month: Cases, 9; deaths, 8.
Java				Month of April, 1922: Report of the 7 Provinces of Java: Cases, 413: deaths, 495. May 1-31, 1922: Cases, 233; deaths, 310; occurring in 6 Provinces. June 1-30, 1922: Cases, 222; deaths 259; occurring in 5 Provinces. July 1-Aug. 31, 1922: Cases, 416; deaths, 447; occurring in 5 Provinces. Sept. 1-30, 1922: Cases, 199; deaths, 248. In 7 Provinces.
East Java— Soerabaya Do Samarang	Sept. 17-23	.) -	3 1 61	
Soerakarta— Keporen Klaten				Epidemic. Epidemic. Locality in district of Prambanan.
Madagascar	May 4		1	Nov. 4, 1922: Present.  Native village: Disease stated to have been present since about Apr. 27, 1922.
Tamatave Do		. 2	1	Present. Aug. 17, 1922: 1 case. Aug. 18, 1922: 1 death. Aug. 21-Sept. 17, 1922: Deaths, 5. Sept. 11-17: Cases, 3.
Tananarive Do	.   July 10-23	. 2		. 1
Mauritius Island	-	-	188	Aug. 7-19, 1922: Cases, 2. Oct. 19, 1922: 65 fatal cases reported.
Bagdad		32		Sept. 24-Nov. 25: 2 plague rats. June 30, 1922: 1 plague rat.
Vera Cruz		. 50	5	1
PeruLocalities—				lem.) May 1-15, 1922: Cases, 36; deaths 19. June 1-30, 1922: Cases, 87
AnconBambamarca (Hualga		··  :		deaths, 15. July 1-Oct. 31 1922: Cases, 182; deaths, 80 JanJune, 1922: Cases, 394
Callao	Sept. 1-Oct. 31dodo		3	Iem.)   May 1-15, 1922: Cases, 36; deaths 19. June 1-30, 1922: Cases, 36 deaths, 15. July 1-0ct, 31 1922: Cases, 182; deaths, 81 JanJune, 1922: Cases, 39 deaths, 173: Cases, 2 deaths, 10; country district cases 2 (corrected report).
Chiclayo	do		7 3 6	
Colan	dodododo.	•	8	
yoc).  Callao Catacaos. Chancay. Chiclayo. Chosica Vieja. Coaillo y Asia (Cañete Colan. Guadaloupe. Huacho. Huaral. Huarmey. Lima (civy). Lima (country). Paita. Santa. St. Luis (Cañete)	dodododododododo	1	1 8 6	Jan. 1-June 30, 1922: Cases, 3 deaths, 16; country distric cases, 25; deaths, 16 (ed) rected report).
PaitaSantaSt. Luis (Cañete) Trujillo	dododododo		• 1	rected report).

### Reports Received from July 1 to December 15, 1922—Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
hilippine Islands:	-			
Manila	June 3	1 2	1	From S. S. Taisang from Amor
Portugal: Lisbon Portuguese West Africa:	July 23-Nov. 10	6	6	Aug. 1-Oct. 23, 1922: Deaths, 10
Angola— Loanda	Oct. 25-28			Present. Reported present Aug. 24, 192
enegal: Dakar Do	June 1-30 July 1-Oct. 31	i .	1 8	
iam: Bangkok Do	Apr. 30-June 3 July 2-Oct. 7	4 14	3 11	
pain: Barcelona Cartagena	Sept. 24-Nov. 14 Oct. 18	23	9	Stated to be confined to factory which disease first appeare
Valencia Straits Settlements: Singapore	Apr. 30-June 24	8	9	which disease first appeare Oct. 18, 1922; 18 cases presen
yria:		i	3	
Aleppo	Sept. 9-16		1 1	Oct. 8-14, 1922: 1 plague rat.
Tunis:		i	1	j.
furkey: Constantinople	•	1	8	· · ·
Orange Free State— Grootkom Farm	May 7-13			One dead plague-infected rode found. Locality adjoins Tr
				cart's Berg Farm, on which plague-infected mouse we found preceding week.
Rendezvous Ry. Station On vessels:	May 14-20			Plague-infected wild roden found near.
S. S. Ardeola	June 25-July 8	•	••••	At Liverpool. Four plague-i fected rats found dead. Vess from Las Palmas, Canary
S. S. Barcelona	Nov. 11	1		lands, June 26, 1922. At Habana, Cuba, from Barclona, Spain, via Canary lands. Patient from Cana
S. S. Dumbea	Aug. 5	1		Islands. At Suez, Egypt, from Island Mauritius. Patient ill tv days before arrival. Declare
Greek vessel	July 19			positive Aug. 6. At Messina, Italy. Cases oboard. Vessel not allowed enter.
S. S. Legie	July 29			At Hamburg, Germany. Plag rats found. Vessel from Buen
S. S. Southgate	May 30	1		Aires, Argentina. At Thursday Island quarantir Australia. Vessel left Calcut May 2: Rangoon, May 9. Ve
S. S. Taisang	June 1-3	1	1	May 2; Rangoon, May 9. V. sel badly rat-infested. At Manila, P. I., from Amc China. Patient landed at M nila June 1, 1922. The Taisa was 24 days en route dire from Amoy.
	CWAI	LPOX.		-

41			
Algeria: Algiers	Nov 1-10	1	
Arabia:		ĺ	
Aden Do	May 7-June 24	60 57	21

### Reports Received from July 1 to December 15, 1922—Continued.

### SMALLPOX—Continued.

Place. Date. Cases. D		Deaths.	Remarks.	
Argentina:				
Rosario	June 1-30		3	
Asia Minor:	35 . 14 Tump 04			In district.
Smyrna	May 14-June 24 June 25-Aug. 26	13		Do.
Do	June 25-111g. 20	10		
\ustria: Vienna	Oct. 22-28	3		
Bermuda:	000.22			
Hamilton	Sept. 3-30	3		
Bolivia:	1			
La Paz	Mar. 1-Apr. 30	97	16	
3razil:	June 25-Oct. 28	3	1	
BahiaPara	May 29-June 25	8		•
Do	May 29-June 25 July 3-Sept. 17	141	2	Aug. 22-28, 1922: Cases, 16.
Pernambuco	Sept. 24-Oct. 14	5		
Rio de Janeiro	May 14-June 24 June 25-Nov. 4 Apr. 10-June 11	48	12	
Do	June 25-Nov. 1	188	44	
Sao Paulo	Apr. 10-June 11	3	10	·
British East Africa:	1		1	Apr. 1-June 30, 1922: Cases, 15,
Kenya Colony	Apr. 16-June 10	26		July 9-15, 1922: Deaths, 5.
Dar-es-Salaam		18	2	1
Do Nairobi		22	2	
Tanganyika Territory	Aug. 20-Oct. 7	63	16	
Zanzibar		. 36	6	
Do	June 24-July 1	. 2		
Can <b>ada:</b>		l	1	
Alberta—	June 18-24	. 1	i	1
Calgary	June 18-24	1 .		1 .
Manitoba— Winnipeg	May 6-June 17	. 3	1	_
Do	Sept. 3-Nov. 25			
New Brunswick—	1 -	1	1	
Kent County	June 25-July 1	. 2		
Madawaska County	June 4-17	- 6		-
Do	Sept. 10-Nov. 11.	. 4	1	Sept. 1-30, 1922: Cases, 19;
Ontario	Aug. 6-Sept. 23	. 3		deaths, 1.
Arthur.	1	1	į.	
Hamilton	July 30-Dec. 2	- 4	1	-
London	Aug. 26-Sept. 2	1 2		-
North Bay Do	June 3-17 July 16-Aug. 12			1
Ottawa	June 11-July 1		·	]
Do	July 2-Nov. 18	. 21	l <b> </b>	
Toronto	June 18-Nov. 18	13	3	
Saskatchewan-		1 .	. 1	Town cost od
Regina	Sept. 17-23	!		. Imported.
Saskatoon	Aûg. 20-26	1	٠	-
Ceylon:	May 14-20	1 ,	ı İ	
Colombo	July 16-Oct. 14			
Chile	July 10 Gott 101			Prevalent July 3, 1922, through
Concepcion	Mar. 14-June 20.		71	out southern Provinces.
Concepcion	June 27-Sept. 4		30	To Clausencian Province: En
Quillon		••		In Concepcion Province: Ep
-		1	1	demic in May, 1922, with 6 reported cases. To June
	ļ	1	i	epidemic.
D.	June 27-July 3	-	i	Epidemic.
DoSan Patricio	May 16-22	1	3	
Talcahuano	June 27-July 3 May 16-22 May 22-June 24.	3		May 16-22, 1922: Present.
_ Do	June 25-July 30.			7
Temuco				Province of Cautin; epidemic i
	1	1	1	May, 1922.
Valparaiso	Mar. 26-June 19.		11	
Do	June 25-July 30.	•• ••••	4	
China:	May 7-20	1	i	Present. June 18-24, 1922:
Amoy	May 7-20			death. Sept. 24-30, 1922:
	1		1	douth
		1	ı	Present. Oct. 15-21, 1922:
Do	July 16-Oct. 21			
Do Antung	May 29-June 18.		4	death.
Do	May 29-June 18. July 3-16		5	death. Present.

## Reports Received from July 1 to December 15, 1922—Continued. SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Foochow	May 14-20	1		Aug. 13-19, 1922: Present.
Do	Aug. 27-Oct. 21			Present.
Hankow Hongkong	May 14 June 24	41		
Do	July 16-Sept 16	5	32	Aum 12 00 1000 TO .
Manchuria—		,	1 2	Aug. 13-26, 1922: Present.
Dairen	May 15-June 18 June 26-Sept. 17 May 22-28. July 30-Aug. 5	4	1	
Do	June 26-Sept. 17	7	1	
Harbin	May 22-28	1		•
Do	July 30-Aug. 5	1		_
Mukden Do	June 18-24	• • • • • • • • •		Present.
Nanking	July 16-Sept. 29 May 7-June 24 June 25-Oct. 21			Do. Do.
Do	June 25-Oct. 21			Do. Do.
Shanghai	May 22-28. May 14-20.	1		Native.
Tientsin	May 14-20			Present.
Tsingtau	May 9-June 18	4	3	Including leased territory of Kin-
				Including leased territory of Kia- ochow, Japanese population along Shantung Railway, and Japanese residents. Tempan
Do Chosen (Korea):	June 26-Oct. 22	8	4	Japanese residents, Tsinan. Do.
Chemulpo	May 1-31	1	l	
Fusan	May 1-June 30 July 1-31	147	60	e e de la companya de la companya de la companya de la companya de la companya de la companya de la companya d
Do	July 1-31	13	9	
Scoul	May 1-June 30	26 23	5	
Cuba	July 1-31	23	8	Tuly 1 Aug 21 1000 Com
City—				July 1-Aug. 31, 1922: Cases, 77.
Antilla	June 18-24	1	<b>.</b>	Reported for Preston.
Do Cienfuegos	Sept. 17-21	2		areported for Treston.
Cienfuegos	June 24-Inty 1	1		
Habana	July 1-Aug. 31 Oct. 15-21 June 1-30.	10		
Sagua la Grande Santiago	Oct. 15-21	1		In vicinity, at Rancho Veloz.
Do	Sept. 1-30	3		
Province	-ори. г об			-
Habana	Aug. 20-31	1		
Matanzas	do	ī		
Oriente	do	3		
Santa Clara	do	4		- · · · · · · · · · · · · · · · · · · ·
	Aug. 5-Sept. 9			Present. Aug. 23: Epidemic. Island in Leeward Islands.
Dominican Republic:				Louis in Decward Islands.
Puorto Plata	Sept. 12-Oct. 14	8		**
San Pedro de Macoris	May 21-June 24	167	2	City and Country. (Corrected
Do	7			report).
Do	June 25-Nov. 11	426	2	City and district. (Corrected re-
Santo Domingo	June 4-24	3	ا و	port.) Including vicinity.
Do	June 25-Nov. 18	7	7	July 30-Aug. 5, 1922: A few cases
Ecuador:	101110		•	city and vicinity.
Guayaquil	July 16-Oct. 15	12		
Milagro	Sept. 1-15do	1		
Nobol. Egypt:	do	1		
Alexandria	Tuly 22 A 10	2		
Cairo.	July 23-Aug. 12	13	2	
Do	Apr. 30-June 24 July 23-Aug. 19 May 7-June 24 July 23-29	7	5	
Do Port Said	May 7-June 24	7 3	ĺ	
Do	July 23-29.	ī		• 1
rmand		2		
Do	July 1-15.	1		
Fiume.	June 13-19	1		
Do France:	July 10-16	1		
Paris	June 1-10	1	1	
Do	0-4 00 01	1 1	l	
	1 Oct. 22-31		1	
Great Britain:	Oct. 22-31	1		
Great Britain: Halifax	Oct. 22-31	<u> </u>		Outbreak reported under date of
Great Britain: Halifax	Oct. 22-31	ļ		June 17, 1922.
Great Britain: Halifax  Huddersfield				Outbreak reported under date of June 17, 1922. Do.
Great Britain: Halifax  Huddersfield		1		June 17, 1922. Do.
Great Britain: Halifax  Huddersüeld  Hull  Liverpool  London	Nov. 12-18. Aug. 13-19.	1 1 53	15	June 17, 1922. Do. In port hospital.
Great Britain: Halifax  Huddersfield	Nov. 12-18. Aug. 13-19.	1 1 53 5 2	15	June 17, 1922. Do.

### Reports Received from July 1 to December 15, 1922-Continued.

### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:	Ma-1 To 0"	3	1	
Saloniki	May 1- June 25	0	i	
Do	July 17-23 May 26	12	5	
Syra Island Haiti:	may 20		-	
Cape Haitien	June 11-17	1		*** * *
Plaine du Nord	do			Vicinity of Cape Haitien. Pres-
				ent. Feb. 26-Mar. 25, 1922: Deaths,
India	Apr. 23-June 24	38	17	1,162 (date of report corrected). Mar. 26-May 20, 1922: Deaths, 6,015. June 4-24: Cases, 2,813, deaths, 919. June 25-Sept. 9,
Bombay Do	July 2-Oct. 7	9	4	Mar. 26-May 20, 1922; Deaths
Calcutta	Apr. 23-June 24	84	67	6,015. June 4-24: Cases, 2,813;
Do	June 25-Oct. 21	35	28	deaths, 919. June 25-Sept. 9
Karachi	May 23-June 24 July 16-Sept. 30 May 14-June 24 July 2-Oct. 28	35 18	9 5	1922; Cases, 9,090; deaths, 2,377.
Do	Mow 14-June 24	207	94	June 19-25, 1922; Cases, 30;
Do	July 2-Oct. 28	548	249	deaths, 15.
Rangoon	May 7-June 24	37	16	•
Do	July 2-Oct. 7	69	34	
Indo-China:		90	26	Including area of 100 square law
Saigon	June 30-Aug. 19	36	ا تھا	Including area of 100 square km.
Italy: Trieste	Sept. 1-Nov. 11	13	4	
Japan:	bept. I-Nov. II		l -i	
Kobe	June 19-25	2	[ <u>.</u> .	
Taiwan Island	June 11-30	26	3	
Do	July 22-Aug. 10	27	4 2	
Yokohama	May 29-June 25 June 26-July 20	48	8	
Java:	Julie 20-July 20	10		
East Java—		1	1	
Soerabaya	Aug. 13-Sept. 23	3		
West Java	-	١		City and Description
Batavia	Apr. 28-June 30	20 70	3 9	City and Province. Province.
Do		1	ľ	110vince.
Luxemburg Malta.	May 1-June 15	4		June 1-30, 1922: Cases, 2.
Mesopotamia:	2203 100000			
Bagdad	. Apr. 1-June 30	36	40	
Do	. July 1-Sept. 30	104	30	
Mexico:	Tune 99 Sept 17	ł	. 2	
Chihuahua Guadalajara	June 22-Sept. 17 May 1-June 30	13	·	1
Do		9	2	
· Manzanillo	. June 6-25		. 4	Estimated cases, 4 to 10.
Do Mexico City	. June 27-July 3	1 6	1	Estimated. Including municipalities in Fed-
Mexico City	. May 21-June 24	129		eral District. Report June 11-
		Į.	1	17, 1922, not received.
Do	June 25-Nov. 4	231	1	Including municipalities in Fed-
	l .			eral District.
Nogales	July 22-Nov. 25 July 23-Oct. 7 July 1-31	. 26	4	State of Sonora.
Nogales	. July 23-Oct. 7	.	. 12	1
Torreon	. July 1-31		- 1	July 1-31, 1922: Cases, 4, of which
Colon	July 1-Oct. 15	3		I nonresident and not locally
Panama	July 1-Aug. 15			1 nonresident and not locally reported. July 28-Sept. 28, 1922: Cases, 3; of these, non-
1 01101110	-   Val., 1 1148, 10111	1		1922: Cases, 3; of these, non-
		1	1	resident, 2.
Persia:	Ama 99 Mari 99	١,	, ]	
Teheran Peru	. Apr. 23-May 22	-	,	May 1-15, 1922; Cases, 5; deaths,
retu				4. June 1-30, 1922: Cases, 16
	1	1	1	deaths, 7. Aug. 1-31, 1922:
	1	1 .	. 1	May 1-15, 1922: Cases, 5; deaths, 4. June 1-30, 1922: Cases, 16 deaths, 7. Aug. 1-31, 1922: Cases, 23; deaths, 5.
Callao	JanJune	·   ~	}   <del>-</del>	
Callao	July 1-Sept. 30 JanJune July 1-Sept. 30	. 64		Country cases, 8: deaths, 2.
Lim <u>a</u>	JanJune	1 1	7 27	Country, cases, 3, deaths, 7. (Corrected report.)
	July 1-0chr. 90	-1 -	'   '	(Corrected report.)
Do				
				Mar. 26-June 24, 1922: Cases,
Poland				Mar. 26-June 24, 1922: Cases, 1,210; deaths, 241.
				Corrected report.) Mar. 2e-June 24, 1922: Case, 1,210; deaths, 241. June 25-Sept. 7, 1922: Cases, 253; deaths, 54. Sept. 3-30, 1922; Cases, 53; deaths 9.

### Reports Received from July 1 to December 15, 1922-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal:				
Lisbon	May 29-June 25	6	8	Corrected report.
Do	June 25-Nov. 11 Aug. 27-Oct. 7	407	03	Do.
Oporto	Aug. 27-Oct. 7	4		
Portuguese East Africa:	July 23-29.	1		
Lourenco Marques Portuguese West Africa:	vary 20-20			
Angola— Loanda	June 25-Oct. 3		16	
Russia:		1	10	
Esthonia	May 1-June 30	6		
Do	July 1-Sept. 30 May 1-June 30	2 51		
Lettonia	July 1-Aug. 31	20		
Senegal: Dakar	June 1-30	4	4	
Spain: Barcelona	June 22-28		1	
Do	Tuna 20 Sant 12		3	
Bilbao	Aug. 1-Sept. 30	·	5	
Cadiz	Aug. 1-30		1	
Corunna	June 11-17 Oct. 15-21		1 1	
Do Huelva	Apr 1-June 30		4	
Do	Apr. 1-June 30 July 1-Aug. 31	!	2	
Seville	June 11-17		36	Week ended June 11, 1922: Man
Do	June 18-Nov. 5 May 21-27		200	cases.
Valencia	May 21-27	1		
Do	Nov. 5-11	1		
Straits Settlements: Singapore	Anr 30-Tune 5	11	2	
Do	Apr. 30-June 5 July 30-Aug. 19	3	i	
Switzerland:			-	
Basel	May 28-June 3	1		
Do	Sept. 17-23	1		
BerneDo	May 14–20 July 9–Oct. 28	1 25		
Lucerne	July 1-31	1		•
Zurich Canton	.   <b></b>	1		Aug. 1-31, 1922: Cases, 74,
Zurich	Apr. 23-June 12 June 25-Nov. 10	9		,
Do	June 25–Nov. 10	95		
Syria: Aleppo	June 4-24	1		Present.
Damascus.	June 18-24		2	r resent.
D0	June 25-Oct. 14	26	3	
Tunis:				
Tunis	July 17-23	1		
Turkey: Constantinople	Morr Ol Turno Od	21	6	
Do -		67	19	
Union of South Africa	Vanc 20 Oct. 21	0,		Apr. 1-June 30, 1922: Cases, 17.
				deaths, 12 (colored), white cases, 36. July 1-Aug. 31, 192 Colored, cases, 232; deaths, white, 9 cases.
		1	1	white, 9 cases.
Cape Province				
			ı	deaths, 3 (colored); white, cases. July 1-Aug. 31, 192 Cases, 89: deaths, 2 (colored).
•		1	1	Cases, 89; deaths, 2 (colored)
Do	Aug. 2-Oct. 21		.	Outhreaks.
Natal				Apr. 1-May 31, 1922: Cases, 2 deaths, 8 (colored); white, 3 cases. July 1-31, 1922: Cases,
		İ	l	deaths, 8 (colored); white,
		1	1	(colored)
Orange Free State		i		May 1-31, 1922; Cases, 12: death
Diait		1	1	1 (colored). July 1-Aug. 3
-		1	!	(colored).  May i-31, 1922: Cases, 12; death 1 (colored). July 1-Aug. 3 1922: 5 cases (colored).
Do	Sept. 3-9 May 11-Jnne 28			Outbreaks.
Southern Rhodesia	May 11-Jnne 28	67	4	In native cases, 3.
Do Transvaal	June 29-Aug. 23	35		Apr. 1-June 30, 1922; Cases.
Trais (air				Apr. 1-June 30, 1922: Cases, (colored); white, 10 case July 1-Aug. 31, 1922: Colored cases, 133; deaths, 1; white,
_	i	1	1	cases.
Do Johannesburg	July 9-Oet. 21	.	.	Outbreaks.
	1	1		1

### Reports Received from July 1 to December 15, 1922—Continued.

### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Virgin Islands: St. Thomas	1	ı	1	At quarantine. From vesses from Dominican Republic. Sept. 4-24, 1921: Cases, 11
Yugoslavia Croatia-Slavonia— Zagreb	June 4-10	1		deaths, 4.
Zagreb Do	1	l		Oct. 23-29, 1921: Cases, 5.
BelgradeDo	June 11-17 Aug. 14-Nov. 5	37	14	
On vessels: S. S. Changsha	May 11	. 1		At Hongkong, China. Cas landed from vessel; patient
S. S. Clan MacWilliams	Aug. 13	1		intending passenger. Vess proceeded to Australian port. En route from Durban and De lagoa Bay, Union of Sout Africa, for Newcastle, Australia, via Mauritius. Arrive Newcastle Aug. 25, 1922; pro
S. S. Comeric	do	1		ceeded to Sydney in quaratine. Patient, colored fir man. At sea, en route to Durban, S. A from Sydney, Australia. (Puile Health Reports, June 2
Sch. Fancy Mc	May 28			1922, p. 1555.) At St. Thomas, Virgin Island From San Pedro de Macor Dominican Republic. 1 ca removed to quarantine June
S. S. Montoro	July S	1		died June 18.  At Darwin, Australia. Ves 1cft Singapore June 28 for win via Java ports. Ca Chinese. developed July
S. S. Shelley	. Apr. 19	1		Case landed at quaranting vessel proceeded in quaranting to Sydney via northern por At sea, en route from Hongkon Vessel left. Hongkong Apr. Arrived Thursday Island qu
S. S. St. Albans	May 18	. 1		antine, Australia, Apr. 28, 19 Case, member of crew; tyl confluent hemorrhagie. At Thursday Island quarantii Australia. Case in person Chinese steerage passeng Vessel left Shimonoseki, Japa
				for Melbourne via Hongke and Manila. Left Thursd Island for Australian ports.

#### TYPHUS FEVER.

Algeria:	May 1-31	16				
Do			i	i		
	June 1-30	3	7	1		
Oran			1			
Do	July 1-Oct. 10	1	4			
Asia Minor: Smyrna	May 14-June 24	8		City and	district.	(Corrected
Do	June 25-Aug. 19	11		report.) District.		
Brisbane	July 9-Aug. 12	2				
Austria: Vienna	May 7-June 10		1			
Do	July 2-Aug. 19	; 3	1	i		
Bolivia: La Paz	Mar. 1-Apr. 30	15	8	1		

### Reports Received from July 1 to December 15, 1922-Continued.

TYPHUS FEVER-Continued.

Place.	Rate.	Cases.	Deaths.	Remarks.
Bulgaria: Sofia	May 28-June 17	4		
Do	Sept. 24-30	i	i	
Chile: Antofagasta	Nov. 5-11	1	.1	
Concepcion	Apr. 11-May 29 June 27-Oct. 16		10 13	
Talcahuano Valparaiso	Oct. 8-28. Apr. 2-22.	7	1 6	*
Do	July 18-Sept. 30		26	v
China: Antung	May 15-21	1		
DoFoochow	July 10-Oct. 29 May 14-20	24		
Do	Aug. 6-12	1 4		
Hankow Manchuria—	July 9-15	1	1	1.
Harbin Do	May 8-June 11 June 26-Oct. 29	9	•••••	
Tsingtau	Sept. 11-18		1	
Prague Do	June 11–17 July 1–Aug. 26	1 2	1	
Danzig (free city)	June 4–10	î		
Egypt: Alexandria	June 4-24	9	6	·
Do	June 25-Nov. 4	33	15	July 22-29, 1922: 1 importe paratyphoid.
Cairo Do	Mar. 19-June 24	19 42	62	Relapsing fever, Mar. 26-Apr.
Port Said	Mar. 19-June 24 June 25-Sept. 9 May 28-June 3	1	30	1922; 1 case.
Do Germany	July 2-Sept. 2	11	29	May 1 6 1000: 5 4
Berlin	Apr. 30-June 24		7	May 1-6, 1922: 5 cases typho fever at quarantine station
Do Coblenz	June 25-Oct. 21 July 2-Nov. 18	26	19	Osternothasen, in persons r turning from Russia.
Königsberg	May 28-June 3 Sept. 3-9	1		The same sections.
DoStuttgart	July 22-Aug. 26	1 2	i	
Great Britain: Glasgow	Sept. 17-23	1	1	
reece: Piræus	Aug. 1-31	1		
Salonikiindo-China:	May 1-June 18	25	1	2 in Russian refugees.
Saigon	Aug. 6-19	1		
East Java—				·
Soerabaya	July 23-Aug. 5	4	2	
Bagdad	Apr. 1-June 30	7	2	
Do	Aug. 1-Sept. 30	6		
Mexico City	Apr. 23-June 24	111		Including municipalities in Fe eral District.
Do San Luis Potosi	June 25-Nov. 4 Sept. 10-Oct. 7	303		Do. Present. Oct. 1-7, 1922; Death
Netherlands:	_	l		2.
Amsterdam	July 30-Aug. 5	1	<b></b>	
Norway: Christiania Province—	Aug. 15	1	1	
Finmarken	July 26-Aug. 5	12	2	Occurring in 3 localities.
Palestine: 1 Jaffa	June 27-Nov. 6	5		Relapsing fever, 1 case.

<sup>&</sup>lt;sup>1</sup> In previous reports given as for Jerusalem.

### Reports Received from July 1 to December 15, 1922—Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Poland				Mar. 26-Apr. 22, 1922: Cases, 5,695: deaths, 349. Apr. 22-June 24, 1922: Cases, 9,402 deaths, 631. Recurrent typhus, Mar. 26-Apr. 22, 1922: Cases, 4,515: deaths, 52-
				June 24, 1922: Cases, 9,402
				deaths, 631. Recurrent typhus,
į.				4,515; deaths, 155. Apr. 23-
				4,515; deaths, 155. Apr. 23. May 6, 1922; Cases, 1,599; deaths, 34. (Corrected report.) May 7-June 24, 1922; Cases, 4,790; deaths, 111. June 25.
				May 7-June 24, 1922: Casas
				4,790; deaths, 111. June 25— Sept. 30, 1922: Cases, 3,000; deaths, 234. Recurrent typhus, June 25—Sept. 30, 1922: Cases,
				deaths, 234. Recurrent typhus
				June 25-Sept. 30, 1922: Cases,
777	Apr. 23-June 24	156		4,617; deaths, 139.  Among transient and permanent
Warsaw	Apr. 25-3(110 21	130		residents.
Portugal:	March Tune 21	9	4	
Oporto	May 4-June 24 June 29-Sept. 30	3	1	
Scixal	Aug. 4	1		Village opposite Lisbon. Apr. 1-May 31, 1922; Cases, 62.
Rumania				Apr. 1-31ay 51, 1922. Cases, 62.
City— Bucharest	May 1-June 20	17		
Cerenauti Do	May 1-31 Oct. 22-28	5		
Chisinau	Apr. 1-June 20	36		
Cluj	May 1-June 20	22 3		
ConstanzaGalatz	do	2		·
Jassey	June 1-30	1		
Sulina District—	May 1-31	2		•
Chisinau	July 1-31	4		Apr. 1-30, 1922: Cases, 14; recurrent typhus, cases, 7.
D-	Sept. 1-30	5	Ì	Recurrent typhus; Cases, 1.
Do Province—	БСРЕ. 1-30			2000 and of parties of cases, or
Bucovina	Jan. 1-31	35	13	
Transylvania Russia:	do	16	ľ	
Esthonia	Apr. 1-June 30	44 16		Sept. 1-30, 1922: Recurrent ty- phus, cases, 6; paratyphus, 11.
Do Lettonia	July 1-Sept. 30 Apr. 1-June 30	635		Recurrent typhus: Cases, 40.
Do	July 1-Aug. 31			Recurrent typhus: Cases, 21; paratyphus cases, 3.
Siberia:		İ		paratyphus cases, o.
Vladivostok	July 1-31'	3		
Spain: Barcelona	July 13-19	1	1	
Madrid	May 1-June 30 July 1-Aug. 31		16	
Do Seville	July 1-Aug. 31 May 21-June 3		7	
Switzerland:	1	i	1	
Lucerne	Aug. 1-31	. 2		-
Syria: Aleppo	Oct. 15-21		1	Aug. 27-Nov. 11, 1922: Present
Damascus	Oct. 1-7			and in interior.
Tunis:	June 4-10	. 2		
Turkey:		1		
Constantinople Do		. 16 41	4	
Union of South Africa			.	Apr. 1-June 30, 1922: Cases, 1,220
		1		deaths, 214 (colored); white, 17 cases. July 1-Aug. 31, 1922
		i	!	Cases, 1,108; deaths, 179 (col
Cana Beaution		1	j	cases. July 1-Aug. 31, 1922 Cases, 1,108; deaths, 179 (colored); white, 4 cases. Apr. 1-June 30, 1922: Cases, 1,037
Cape Province				
		į		cases. July 1-Aug. 31, 1922 Cases, 1,041; deaths, 165 (colored); white, 4 cases.
		i	1	ored); white, 4 cases.
Do	. Aug. 20-Oct. 14			Outbreaks. Sept. 28, 1922. Outbreaks a
Diamond fields	-	-	· ·····	native locations near Kimber
		1	1	ley.
Delport	. Sept. 28		20	Outbreak.
Gong-Gong Winter's Rush			. 1:	
East London	. do	. 1		

### Reports Received from July 1 to December 15, 1922--('ontinued.

### TYPHUS FEVER--Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
nion of South Africa Contd.		-		
Natal				Apr. 1-June 30, 1922: Cases, 57
Do Orange Free State	Sept. 1-Oct. 21			deaths, 7 (colored). July 1- Aug. 31, 1922: Cases, 25; deaths,
Do	:			deaths, 10 (colored); white, case. July 1-Aug. 31, 1922 Cases 36; deaths 10 (colored)
Transvaal.	211g. 21-000. 21			Apr. 1-June 30, 1922; Cases, 29
				deaths, 2 (colored). July 1- Aug. 31, 1922; Cases, 6 (colored)
Do	May 1-June 30 July 1-31	7	1	Ontoleaks.
ugoslavia				Aug. 7-13 1921; 2 new cases.
Bosnia-Herzegovina	Aug. 1-13	!!		(1921).
Croatia-Slavonia Serbia-	-	1		Do.
Belgrade Voivodina	May 6-June 3 Aug. 7-13	2 1		Do.
On vessels: S. S. Chios	July 18	1		At Kavak quarantine station Bosporus, from Novorossysk
S. S. Smolensk	June 14	1	1	a Russian Black Sea port Vessel carried refugees fo Saloniki, Greece. From Danzig, May 30, 1922. A embarkation detention camp Southampton, England (Public Health Reports, Jun 30, 1922, p. 1610.)
	YELLOW	FEVE	cr.	
Brazil: Bahia	Y. J		2	
Mexico:		1		Origin of one fatal case, Tampico
Ciudad Victoria Tampico	July 27-29	í		From Panuco! Patient brough to Tampico on eighth day o illness.
Ро	Aug. 30		6	Of these, 5 with origin at Panueo State of Vera Cruz; 1 with origin at Tampico. Nov. 5 1922: 1 case.
Tuxpam On vessel:		ı		
S. S. H. H. Rogers		1		Probable case. At Tampico Mexico.
Schr. William E. Burnham.	Sept. 13		1	At sea between Paramaribo an Mobile Quarantine, Ala., when the vessel arrived Sept. 1- 1922. The vessel left Fre town, Sierra Leone, June 2 and touched at Mungo an